





FEB 20 1947

Vol. III

1946

No. 1

**MEMOIRS**  
of the  
**Southern California Academy of Sciences**



**A Guide to the Literature and Distributions  
of the Marine Algae of the Pacific Coast  
of North America**

—  
by **E. YALE DAWSON**



# Southern California Academy of Sciences

## OFFICERS and DIRECTORS

|                       |           |                                |
|-----------------------|-----------|--------------------------------|
| DR. H. J. ANDREWS     | - - - - - | <i>President</i>               |
| DR. A. WEIR BELL      | - - - - - | <i>First Vice-President</i>    |
| DR. WILLIAM L. LLOYD  | - - - - - | <i>Second Vice-President</i>   |
| DR. JOHN A. COMSTOCK. | - - - - - | <i>Secretary and Treasurer</i> |
| DR. H. J. ANDREWS     |           | DR. WILLIAM L. LLOYD           |
| DR. A. WEIR BELL      |           | MR. THEODORE PAYNE             |
| DR. JOHN A. COMSTOCK  |           | DR. W. DWIGHT PIERCE           |
| DR. ROBERT D. EMERY   |           | DR. CHESTER STOCK              |
| DR. JOHN HERMAN       |           | DR. LOUIS C. WHEELER           |

MR. R. S. WOGLUM

## ADVISORY BOARD

|                          |                     |
|--------------------------|---------------------|
| MR. FRED E. BURLEW       | DR. HOWARD R. HILL  |
| MR. A. YORK ESCALANTE    | DR. R. H. SWIFT     |
| MR. SAMUEL MOODY HASKINS | DR. SHERWIN F. WOOD |

## BOTANICAL SECTION

DR. GEORGE R. JOHNSTONE, *Chairman*

## SECTION OF HEALTH AND SANITATION

DR. ROBERT D. EMERY, *Chairman*

## SECTION OF ZOOLOGICAL SCIENCES

DR. A. WEIR BELL, *Chairman*

## SECTION OF CHEMICAL SCIENCES

MAJOR JOS. B. FICKLEN III, *Chairman*

## SECTION OF EARTH SCIENCES

DR. CHESTER STOCK, *Chairman*

## SECTION OF PHYSICAL SCIENCES

DR. LEE DEFORREST, *Chairman*

## SECTION OF AGRICULTURAL SCIENCES

MR. RUSSELL S. WOGLUM, *Chairman*

## SECTION OF JUNIOR SCIENCE

MR. A. YORK, ESCALANTE, *Chairman*

## ARCHEOLOGICAL SECTION

MR. ARTHUR WOODWARD, *Chairman*

## FINANCE COMMITTEE

MR. FRED E. BURLEW, *Chairman*

MR. SAMUEL MOODY HASKINS      DR. JOHN A. COMSTOCK

## PROGRAM COMMITTEE

DR. ROBERT L. RUTHERFORD, *Chairman*      DR. HOWARD R. HILL

## HOSPITALITY COMMITTEE

DR. W. DWIGHT PIERCE, *Chairman*

MRS. EUNICE KING      MR. HUGH D. AUSTIN

## COMMITTEE ON PUBLICATION

DR. JOHN A. COMSTOCK, *Chairman*

DR. CHESTER STOCK      DR. HOWARD R. HILL      DR. WILLIAM L. LLOYD

## COMMITTEE ON CONSERVATION

DR. JOHN A. COMSTOCK, *Chairman*

MR. THEODORE PAYNE

PROF. J. STANLEY BRODE

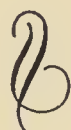
## OFFICE OF THE ACADEMY

Los Angeles County Museum, Exposition Park, Los Angeles 7, Calif.





A GUIDE TO THE  
Literature and Distributions  
OF THE  
Marine Algae of the  
Pacific Coast of  
North America



By  
E. YALE DAWSON

---

---

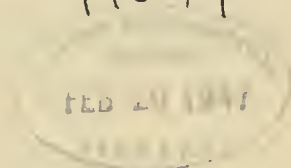
Memoirs of the Southern California Academy of Sciences  
Vol. 3, No. 1, 1946

---

---

PRICE \$2.00

79544



Receipt -

A. Anderson



# A GUIDE TO THE LITERATURE AND DISTRIBUTIONS OF THE MARINE ALGAE OF THE PACIFIC COAST OF NORTH AMERICA

By

E. YALE DAWSON

---

## INTRODUCTION

More than two decades have elapsed since the monographs by Setchell and Gardner of the Chlorophyceae and Phaeophyceae brought our knowledge of these groups of marine algae on the Pacific Coast of North America up to date for 1920 and 1925, respectively. Although these works are still highly authoritative and moderately complete, a considerable number of papers dealing with the green and brown algae of our coasts have subsequently appeared, creating changes and additions in these classes. The status of the Rhodophyceae, moreover, has long been unsatisfactory, for no assembly of the literature dealing with Pacific Coast species, nor complete survey of the species, has ever been accomplished. The existing information is badly scattered and largely inaccessible except to those few who have access to a large library and to collections such as those of the University of California. Aiming toward alleviating this situation, an attempt has been made to assemble here the published records of determinations and distributions of all the marine algae of the Pacific Coast of North America, with the exception of the Myxophyceae.

The appearance of three important works within the past year, each dealing with the algal flora of a different part of the Pacific Coast, has made this task immeasurably easier and more practicable. Smith's *Marine Algae of the Monterey Peninsula, California*, in treating of a large proportion of the species occurring on the Pacific Coast of the United States, has been of signal value in bringing together a great amount of information on these northern plants. The author's monograph of the *Marine Algae of*

*the Gulf of California* has brought that region up to date such that no further assembly nor review of its literature was necessary. The valuable work of Taylor: *Pacific Marine Algae of the Allan Hancock Expeditions to the Galapagos Islands* has provided abundant information on the algal floras of the Mexican and Central American coasts of which almost nothing was previously known.

Citation of all the references to any given species has not been possible, but the references cited include the most recent ones and will serve in each case as a key to the previous literature.

The limits of the "Pacific Coast of North America" are taken as the Aleutian Islands on the north and the Gulf of Panamá on the south. The coastwise distance between Attu Island and Panamá is nearly 6500 miles. For the sake of consistency, distribution records are cited from north to south.

La Jolla, California,

June 30, 1945.

LIST OF SPECIES

CHLOROPHYCEAE  
(GREEN ALGAE)

Order **VOLVOCALES**

Fam. **Polyblepharidaceae**

STEPHANOPTERA GRACILIS (Artari) G. M. Smith  
Smith, 1944  
San Francisco Bay; Monterey, Calif.

DUNALIELLA SALINA (Dunal) Teodoresco  
Smith, 1944  
San Francisco; Monterey, Calif.

Fam. **Chlamydomonadaceae**

PLATYMONAS SUBCORDIFORMIS (Wille) Hazen  
Smith, 1944  
Monterey, Calif.

Order **TETRASPORALES**

Fam. **Chlorangiaceae**

COLLINSIELLA TUBERCULATA Setchell & Gardner  
Smith, 1944  
Vancouver Is., B. C. to Pacific Grove, Calif.

PRASINOCLOUDUS LUBRICUS Kuckuck  
Smith, 1944  
Monterey, Calif.

Order **ULOTRICHALES**

Fam. **Ulotrichaceae**

ULOTHRIX FLACCA (Dillwyn) Thuret  
Setchell & Gardner, 1920  
Alaska to California

ULOTHRIX IMPLEXA Kützing  
Smith, 1944  
Bering Sea to Monterey, Calif.

ULOTHRIX LAETEVIRENS (Kützing) Collins  
Setchell & Gardner, 1920  
Unalaska, Alaska to California

ULOTHRIX PSEUDOFLACCA f. MINOR Wille  
Setchell & Gardner, 1920  
Sitka, Alaska

ULOTHRIX PSEUDOFLACCA f. MAJOR Wille  
Setchell & Gardner, 1920  
San Francisco, Calif.

ULOTHRIX PSEUDOFLACCA f. MAXIMA Setchell & Gardner  
Setchell & Gardner, 1920  
San Francisco, Calif.

### Fam. Chaetophoraceae

BULBOCOLEON PILIFEREM Pringsheim  
Setchell & Gardner, 1920; Dawson, 1945B  
Southern Calif.

PILINIA LUNATIAE f. SIMPLEX Thivy  
Taylor, 1945  
Panama City, Panamá

PILINIA MARITIMA f. PACIFICA Thivy  
Taylor, 1945  
Is. Clarion, Revilla Gigedo Arch.

PHAEOPHILIA DENDROIDES (Crouan) Batters  
Taylor, 1945  
Is. María Magdalena, Nayarit

PHAEOPHILIA ENGLERI Reinke  
Taylor, 1945  
Is. Clarion, Revilla Gigedo Arch.; Tangola-Tangola,  
Oaxaca to Is. Taboga, Panamá

PHAEOPHILIA POLYMORPHA Jao  
Jao, 1937  
San Juan Is., Wash.

ENTOCLADIA CINGENS Setchell & Gardner  
Setchell & Gardner, 1920  
San Diego, Calif.

ENTOCLADIA CODICOLA Setchell & Gardner  
Smith, 1944; Dawson, 1945B  
Monterey Peninsula to La Jolla, Calif.

ENTOCLADIA CONDENSATA Setchell & Gardner  
Dawson, 1944  
Puerto Libertad, Sonora; Is. San Esteban, Gulf of Calif.



- ENTOCLADIA MEXICANA Setchell & Gardner  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif.; La Paz, Baja  
Calif.
- ENTOCLADIA POLYSIPHONIAE Setchell & Gardner  
Dawson, 1944  
Guaymas, Sonora; La Paz, Baja Calif.
- ENTOCLADIA VIRIDIS Reinke  
Smith, 1944  
Moss Beach, San Mateo Co.; Monterey, Calif.
- ENDOPHYTON RAMOSUM Gardner  
Smith, 1944  
San Francisco; Monterey Peninsula, Calif.
- PSEUDODICTYON GENICULATUM Gardner  
Smith, 1944  
San Francisco; Pacific Grove, Calif.
- INTERNORETIA FREYEANA Setchell & Gardner  
Setchell & Gardner, 1920  
Friday Harbor, Wash.
- ULVELLA SETCHELLII Dangeard  
Smith, 1944; *Ulvella Lens* in Setchell & Gardner, 1930  
Pacific Grove, Calif.; Is. Guadalupe, Baja Calif.
- PSEUDOULVELLA APPLANATA Setchell & Gardner  
Smith, 1944  
Carmel, Calif.
- PSEUDOULVELLA CONSOCIATA Setchell & Gardner  
Setchell & Gardner, 1920  
San Francisco Bay at Alameda, Calif.
- PSEUDOULVELLA PROSTRATA (Gardner) Setchell & Gardner  
Setchell & Gardner, 1920  
San Francisco, Calif.
- PSEUDOPRINGSHEIMIA APICULATA Setchell & Gardner  
Smith, 1944  
San Francisco; Monterey, Calif.
- PRINGSHEIMIELLA MARCHANTAE (Setchell & Gardner)  
Schmidt  
Schmidt, 1935; *Pringsheimia Marchantae* in Dawson,  
1944  
La Paz, Baja Calif.

**Fam. Trentepohliaceae**

GOMONTIA POLYRHIZA (Lagerheim) Bornet & Flahault  
Smith, 1944  
Neah Bay, Wash.; Monterey, Calif.

TRENTEPOHLIA ODORATA (Wiggers) Wittrock  
Sanborn & Doty, 1946  
Coos Bay, Oregon

TRENTEPOHLIA ODORATA var. UMBRINA (Kützing) Hariot  
Setchell & Gardner, 1920  
San Pedro, Calif.

**Order ULVALES****Fam. Ulvaceae**

MONOSTROMA AREOLATUM Setchell & Gardner  
Setchell & Gardner, 1920  
Sitka, Alaska

MONOSTROMA FRACTUM Jao  
Jao, 1937  
Turn Is., Wash.

MONOSTROMA FUSCUM (Postels & Ruprecht) Wittrock  
Setchell & Gardner, 1920  
Alaska to Puget Sound, Wash.

MONOSTROMA FUSCUM var. SPLENDENS (Ruprecht) Rosenvinge  
Setchell & Gardner, 1920  
Alaska to Vancouver Is., B. C.

MONOSTROMA FUSCUM var. BLYTTII (Areschoug) Collins  
Setchell & Gardner, 1920  
Vancouver Is., B. C.; Washington

MONOSTROMA GREVILLEI (Thuret) Wittrock  
Setchell & Gardner, 1920  
Unalaska, Alaska

MONOSTROMA GREVILLEI var. LUBRICUM (Kjellman) Collins  
Setchell & Gardner, 1920  
Sitka, Alaska

MONOSTROMA GREVILLEI var. VAHLII (J. Agardh) Rosen-  
vinge  
Setchell & Gardner, 1920  
Kukak Bay; Sitka, Alaska

MONOSTROMA LATISSIMUM (Kützing) Wittrock  
Setchell & Gardner, 1920  
Vancouver, B. C. to central California

- MONOSTROMA ORBICULATUM Thuret  
Setchell & Gardner, 1920  
Central California
- MONOSTROMA QUATERNARIUM (Kützing) Desmazières  
Setchell & Gardner, 1920  
Washington to southern California
- MONOSTROMA ZOSTERICOLA Tilden  
Smith, 1944  
Vancouver Is., B. C.; Puget Sound, Wash.; Monterey  
Peninsula, Calif.
- ENTEROMORPHA ACANTHOPHORA Kützing  
Dawson, 1944  
Gulf of Calif.
- ENTEROMORPHA CLATHRATA (Roth) Greville  
Smith, 1944  
Sitka, Alaska to Carmel, Calif.
- ENTEROMORPHA CRINITA (Roth) J. Agardh  
Setchell & Gardner, 1920  
Valdes, Alaska to San Diego, Calif.
- ENTEROMORPHA COMPRESSA (Linnaeus) Greville  
Smith, 1944; Dawson, 1944  
Bering Sea to central México; Gulf of Calif.
- ENTEROMORPHA ERECTA J. Agardh  
Setchell & Gardner, 1920  
Comox, Vancouver Is., B. C. to Santa Rosa Is., Calif.
- ENTEROMORPHA FLEXUOSA (Wulfen) J. Agardh  
Setchell & Gardner, 1920; Taylor, 1945  
Santa Barbara, Calif. to Port Parker, Costa Rica
- ENTEROMORPHA GROENLANDICA (J. Agardh) Setchell &  
Gardner  
Setchell & Gardner, 1920  
Bering Sea to Unalaska, Alaska
- ENTEROMORPHA INTESTINALIS (Linnaeus) Link  
Smith, 1944; Dawson, 1944  
Kukak Bay, Alaska to La Paz, Baja Calif.; Gulf of  
Calif.
- ENTEROMORPHA INTESTINALIS f. CYLINDRACEA J. Agardh  
Setchell & Gardner, 1920  
Alaska to México
- ENTEROMORPHA INTESTINALIS f. MAXIMA J. Agardh  
Setchell & Gardner, 1920  
Alaska to México

- ENTEROMORPHA INTESTINALIS f. CLAVATA J. Agardh  
Setchell & Gardner, 1920  
Alaska to México
- ENTEROMORPHA LINGULATA J. Agardh  
Setchell & Gardner, 1920; Taylor, 1945  
Is. Guadalupe, Baja Calif. to Balboa, Canal Zone
- ENTEROMORPHA MARGINATA J. Agardh  
Setchell & Gardner, 1920  
Vancouver Is., B. C. to Calif.
- ENTEROMORPHA MICROCOCCA Kützing  
Smith, 1944  
Dutch Harbor, Alaska to México
- ENTEROMORPHA MICROCCA f. SUBSALSA Kjellman  
Setchell & Gardner, 1920  
Skagway, Alaska to Puget Sound, Wash.
- ENTEROMORPHA MINIMA Nägeli  
Smith, 1944  
Dutch Harbor, Alaska to México
- ENTEROMORPHA PLUMOSA Kützing  
Setchell & Gardner, 1920; 1930  
Puget Sound, Wash.; San Francisco, Calif.; Is. Clarion,  
Revilla Gigedo Arch.
- ENTEROMORPHA PROLIFERA (Müller) J. Agardh  
Setchell & Gardner, 1920; Dawson, 1944  
Alaska to Central America
- ENTEROMORPHA SALINA var. POLYCLADOS Kützing  
Setchell & Gardner, 1920  
San Francisco Bay, Calif.
- ENTEROMORPHA TORTA (Mertens) Reinbold  
Setchell & Gardner, 1920; Jao, 1937  
Friday Harbor, Wash.; San Diego, Calif.
- ENTEROMORPHA TUBULOSA Kützing  
Smith, 1944; Dawson, 1945E  
Sausalito, Calif. to Cabo Colnett, Baja Calif.
- ULVA ANGUSTA Setchell & Gardner  
Smith, 1944; Dawson, 1944; Setchell & Gardner, 1930  
Humboldt Co. to Carmel, Calif.; Is. Guadalupe, Baja  
Calif. ?; Guaymas, Sonora
- ULVA CALIFORNICA Wille  
Setchell & Gardner, 1920  
San Diego Co., Calif.



- ULVA DACTYLIFERA Setchell & Gardner  
Setchell & Gardner, 1920; Dawson, 1944  
Southern Calif. to San Roque, Baja Calif.; southern  
Gulf of Calif.
- ULVA EXPANSA (Setchell) Setchell & Gardner  
Smith, 1944  
Puget Sound, Wash. to La Paz, Baja Calif.?
- ULVA FENESTRATA Postels & Ruprecht  
Setchell & Gardner, 1920  
Sitka, Alaska to Puget Sound, Wash.
- ULVA LACTUCA Linnaeus  
Smith, 1944; Dawson, 1944; Taylor, 1945  
Bering Sea to Panamá
- ULVA LATISSIMA Linnaeus  
Setchell & Gardner, 1920  
Juneau, Alaska
- ULVA LINZA Linnaeus  
Smith, 1944  
Orca, Alaska to La Paz, Baja Calif.
- ULVA LOBATA (Kützinger) Setchell & Gardner  
Smith, 1944; Taylor, 1945  
San Francisco to San Diego, Calif.; Bahía Petatlán,  
Guerrero
- ULVA RIGIDA C. Agardh  
Smith, 1944; Dawson, 1944; Taylor, 1945  
Uyak Bay, Alaska to La Paz, Baja Calif.; Gulf of Calif.;  
Is. María Madre, Nayarit
- ULVA STENOPHYLLA Setchell & Gardner  
Smith, 1944  
Bollinas to Monterey, Calif.
- ULVA TAENIATA (Setchell) Setchell & Gardner  
Smith, 1944; Dawson, 1945E  
Coos Bay, Oregon to Carmel, Calif.; Punta Descanso;  
Cabo Colnett, Baja Calif.
- ULVA VEXATA Setchell & Gardner  
Setchell & Gardner, 1920  
San Francisco, Calif.
- PERCURSARIA PERCURSA (C. Agardh) Rosenvinge  
Setchell & Gardner, 1920  
Unalaska, Alaska to San Francisco Bay, Calif.

Order **SCHIZOGONIALES**Fam. **Schizogoniaceae**

- PRASIOLA BOREALIS Reed  
Setchell & Gardner, 1920  
Unalaska, Kodiak and Baranof Is., Alaska
- PRASIOLA CALOPHYLLA (Carmichael) Meneghini  
Setchell & Gardner, 1920  
Whidbey Is., Wash.
- PRASIOLA DELICATULA Setchell & Gardner  
Setchell & Gardner, 1920  
Sitka, Alaska
- PRASIOLA MERIDIONALIS Setchell & Gardner  
Smith, 1944  
Friday Harbor, Wash. to Carmel, Calif.
- GAYELLA CONSTRICTA Setchell & Gardner  
Smith, 1944  
Friday Harbor, Wash.; Tomales Point; Monterey, Calif.
- GAYELLA POLYRHIZA Rosenvinge  
Setchell & Gardner, 1920  
Amaknak Is., Alaska

Order **CLADOPHORALES**Fam. **Cladophoraceae**

- RHIZOCLONIUM IMPLEXUM (Dillwyn) Kützing  
Smith, 1944  
Unalaska, Alaska to Carmel, Calif.
- RHIZOCLONIUM KERNERI Stockmayer  
Setchell & Gardner, 1920; Taylor, 1945  
Victoria, B. C.; Is. Clarion, Revilla Gigedo Arch.
- RHIZOCLONIUM RIPARIUM (Roth) Harvey  
Smith, 1944  
Unalaska, Alaska to Carmel, Calif.
- RHIZOCLONIUM TORTUOSUM (Dillwyn) Kützing  
Smith, 1944  
Alaska to Carmel, Calif.
- LOLA LUBRICA (Setchell & Gardner) A. et G. Hamel  
Dawson, 1944; *Rhizoclonium lubricum* in Setchell &  
Gardner, 1920; Taylor, 1945  
Rocke Harbor, Wash. to Puerto Culebra, Costa Rica

- HORMISCIA DOLIIFERA Setchell & Gardner  
Setchell & Gardner, 1920  
San Francisco, Calif.
- HORMISCIA GRANDIS (Kylin) Setchell & Gardner  
Setchell & Gardner, 1920  
Unalaska, Alaska to Puget Sound, Wash.
- HORMISCIA PENICILLIFORMIS (Roth) Fries  
Setchell & Gardner, 1920; *Urospora peniciliformis* in  
Smith, 1944  
Bering Sea to Carmel, Calif.
- HORMISCIA SPHAERULIFERA Setchell & Gardner  
Setchell & Gardner, 1920  
Whidbey Is., Wash.
- HORMISCIA TETRACILIATA Frye & Zeller  
Setchell & Gardner, 1920  
San Juan County, Wash.
- HORMISCIA VANCOUVERIANA (Tilden) Setchell & Gardner  
Setchell & Gardner, 1920  
Oak Bay, Vancouver Is., B. C.
- HORMISCIA WORMSKIOLDII (Mertens) Fries  
Setchell & Gardner, 1920  
Friday Harbor, Wash. to Gualala, Calif.
- CHAETOMORPHA AEREA (Dillwyn) Kützing  
Smith, 1944; Dawson, 1944  
Santa Cruz to San Diego, Calif.; northern Gulf of Calif.
- CHAETOMORPHA ANTENNINA (Bory) Kützing  
Setchell & Gardner, 1920; Dawson, 1945B, 1945E;  
Taylor, 1945  
La Jolla, Calif. to Panamá
- CHAETOMORPHA CALIFORNICA Collins  
Setchell & Gardner, 1920  
Laguna Beach to La Jolla, Calif.
- CHAETOMORPHA CANNABINA (Areschoug) Kjellman  
Setchell & Gardner, 1920  
Alaska to Puget Sound, Wash.
- CHAETOMORPHA CLAVATA (C. Agardh) Kützing  
Dawson, 1945E  
Punta Descanso; Cabo Colnett, Baja Calif.
- CHAETOMORPHA CRASSA (C. Agardh) Kützing  
Taylor, 1939  
Bahía Magdalena, Baja Calif.

- CHAETOMORPHA MELANGONIUM* (Weber & Mohr) Kützing  
Setchell & Gardner, 1920  
Unalaska; Kodiak Is., Alaska
- CHAETOMORPHA TENUISSIMA* Jao  
Jao, 1937  
Friday Harbor, Wash.
- CHAETOMORPHA TORTA* (Farlow) McClatchie  
Setchell & Gardner, 1920; Dawson, 1945B  
Southern Calif.
- CLADOPHORA ALBIDA* (HUDSON) Kützing  
Setchell & Gardner, 1920; Dawson, 1944  
East Sound, Wash.; San Pedro, Calif.; Kino, Sonora
- CLADOPHORA AMPHIBIA* Collins  
Setchell & Gardner, 1920  
San Francisco Bay, Calif.
- CLADOPHORA BERTOLONII* var. *HAMOSA* (Kützing) Ardissonne  
Smith, 1944  
Pacific Grove, Calif.
- CLADOPHORA DELICATULA* Montagne  
Smith, 1944; Dawson, 1944  
Monterey Peninsula; San Diego, Calif.; Rio Mayo,  
Sonora
- CLADOPHORA FLEXUOSA* (Griffiths) Harvey  
Smith, 1944  
Annette Is., Alaska to San Diego, Calif.
- CLADOPHORA GLAUDESCENS* (Griffiths) Harvey  
Setchell & Gardner, 1920  
Nanaimo, B. C. to Oakland, Calif.
- CLADOPHORA GRACILIS* (Griffiths) Kützing  
Setchell & Gardner, 1920  
Sitka, Alaska; Neah Bay, Wash.
- CLADOPHORA GRACILIS* f. *EXPANSA* Farlow  
Taylor, 1945  
Is. Clarion, Revilla Gigedo Arch.
- CLADOPHORA GRAMINEA* Collins  
Smith, 1944; Dawson, 1944; 1945E  
Santa Cruz, Calif. to Guaymas, Sonora
- CLADOPHORA HEMISPHERICA* Gardner  
Smith, 1944  
Monterey Peninsula, Calif.



- CLADOPHORA HESPERIA Setchell & Gardner  
Dawson, 1944  
Kino, Sonora to cape district, Baja Calif.
- CLADOPHORA HUTCHINSIAE (Dillwyn) Kützing  
Setchell & Gardner, 1920  
Vancouver Is., B. C.
- CLADOPHORA HUTCHINSIAE var. DISTANS (C. Agardh)  
Kützing  
Setchell & Gardner, 1920  
West coast of Vancouver Is., B. C.
- CLADOPHORA LAETEVIRENS (Dillwyn) Kützing  
Setchell & Gardner, 1920  
Vancouver, B. C. and Straits of Juan de Fuca
- CLADOPHORA MACDOUGALII Howe  
Dawson, 1944  
Bahía San Felipe, Baja Calif.
- CLADOPHORA MICROCLADIOIDES Collins  
Smith, 1944; Dawson, 1944; 1945E  
Vancouver, B. C. to Gulf of Calif.
- CLADOPHORA MICROCLADIOIDES f. STRICTA Collins  
Setchell & Gardner, 1920  
San Diego, Calif.
- CLADOPHORA OVOIDEA Kützing  
Smith, 1944  
Santa Cruz to Monterey, Calif.
- CLADOPHORA PANAMENSIS Taylor  
Taylor, 1945  
Bahía Honda, Panamá
- CLADOPHORA PROLIFERA (Roth) Kützing  
Taylor, 1945  
Golfo Dulce, Costa Rica
- CLADOPHORA RUDOLPHIANA (C. Agardh) Kützing  
Dawson, 1944  
Guaymas, Sonora
- CLADOPHORA RUDOLPHIANA f. ERAMOSA Gardner  
Setchell & Gardner, 1920; Dawson, 1944  
San Francisco Bay, Calif.; Guaymas, Sonora
- CLADOPHORA STIMPSONII Harvey  
Setchell & Gardner, 1920  
Ucluet Inlet, B. C. to southern Calif.
- CLADOPHORA TIBURONENSIS Dawson  
Dawson, 1944  
Is. Tiburón, Gulf of Calif.

- CLADOPHORA TRICHOTOMA (C. Agardh) Kützing  
Smith, 1944; Dawson, 1944; 1945E  
Vancouver Is., B. C. to Punta Descanso, Baja Calif.;  
La Paz, Baja Calif.?
- CLADOPHORA TRICHOTOMA f. ELONGATA Collins  
Setchell & Gardner, 1920  
Point Carmel, Calif.
- SPONGOMORPHA ARCTA (Dillwyn) Kützing  
Setchell & Gardner, 1920  
Bering Sea to Puget Sound, Wash.
- SPONGOMORPHA COALITA (Ruprecht) Collins  
Smith, 1944  
Unalaska, Alaska to Carmel, Calif.
- SPONGOMORPHA DURIUSCULA (Ruprecht) Collins  
Setchell & Gardner, 1920  
Unalaska; Karluk, Alaska
- SPONGOMORPHA HYSTRIX Stroemfelt  
Setchell & Gardner, 1920  
Agattu Is. to Sitka, Alaska
- SPONGOMORPHA MERTENSII (Ruprecht) Setchell & Gardner  
Setchell & Gardner, 1920  
Unalaska, Alaska to San Francisco, Calif.
- SPONGOMORPHA SAXATILIS (Ruprecht) Collins  
Setchell & Gardner, 1920  
Alaska to San Francisco, Calif.
- SPONGOMORPHA SAXATILIS var. CHAMISSONIS (Ruprecht)  
Collins  
Setchell & Gardner, 1920  
Alaska to Washington
- SPONGOMORPHA SPINESCENS Kützing  
Setchell & Gardner, 1920  
Unalaska to Coos Bay, Oregon
- MICRODICTYON PALMERI Setchell  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.

### Fam. **Valoniaceae**

- DICTYOSPHAERIA AUSTRALIS Setchell  
Taylor, 1945  
Is. Clarion; Is. Socorro, Revilla Gigedo Arch.

DICTYOSPHERIA VERSLUYSI Weber van Bosse  
Setchell & Gardner, 1930; Dawson, 1944; Taylor, 1945  
Is. Guadalupe, Baja Calif.; Is. Espiritu Santo, Gulf of  
Calif.; Is. Socorro, Revilla Gigedo Arch.

CLADOPHOROPSIS ROBUSTA Setchell & Gardner  
Dawson, 1944; Taylor, 1945  
Is. Tortuga, Gulf of Calif.; Is. Isabel, Nayarit

BOODLEA COMPOSITA (Harvey & Hooker, f.) Brand  
Taylor, 1945  
Is. María Magdalena, Nayarit

VALONIOPSIS HANCOCKII Dawson  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif.

VALONIOPSIS PACHYNEMA (Martens) Børgesen  
Dawson, 1944  
Is. Angel de la Guarda to Is. Espiritu Santo, Gulf of  
Calif.

SIPHONOCCLUS PUSILLOIDES Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.

### Fam. **Dasycladaceae**

ACETABULARIA PARVULA Solms-Laubach  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.

ACETABULARIA PARVULA var. AMERICANA Taylor  
Taylor, 1945  
Is. Socorro, Revilla Gigedo Arch.

NEOMERIS VANBOSSEAE Howe  
Taylor, 1945  
Is. Socorro, Revilla Gigedo Arch.

## Order **CHLOROCOCCALES**

### Fam. **Endosphaeraceae**

CHLOROCHYTRIUM INCLUSUM Kjellman  
Smith, 1944  
Sitka, Alaska to Carmel, Calif.

CHLOROCHYTRIUM PORPHYRAE Setchell & Gardner  
Smith, 1944  
Cape Flattery, Wash.; San Francisco; Monterey Penin-  
sula, Calif.

CHLOROCHYTRIUM SCHMITZII Rosenvinge  
Setchell & Gardner, 1920  
Kodiak Is., Alaska

CODIOLUM GREGARIUM A. Braun  
Setchell & Gardner, 1920  
Friday Harbor, Wash.

CODIOLUM PETROCELIDIS Kuckuck  
Smith, 1944  
Whidbey Is., Wash.; San Francisco; Monterey, Calif.

CODIOLUM PUSILLUM f. SUBSESSILE Jao  
Jao, 1937  
Brown Is., Wash.

### Order SIPHONALES

#### Fam. Halicystidaceae

HALICYSTIS OVALIS (Lyngbye) Areschoug  
Smith, 1944  
Vancouver Is., B. C. to Redondo, Calif.

#### Fam. Bryopsidaceae

BRYOPSIS CORTICULANS Setchell  
Smith, 1944; Dawson, 1945B  
Victoria, B. C. to La Jolla, Calif.

BRYOPSIS GALAPAGENSIS Taylor  
Taylor, 1945  
Is. Socorro; Is. Clarion, Revilla Gigedo Arch.

BRYOPSIS HYPNOIDES Lamouroux  
Smith, 1944; Taylor, 1945  
Victoria, B. C. to San Pedro, Calif.; Panamá City, Panamá

BRYOPSIS PENNATULA J. Agardh  
Setchell & Gardner, 1920; Taylor, 1945  
San Agustin, Oaxaca; Bahía Petatlán, Guerrero

BRYOPSIS PLUMOSA (Hudson) C. Agardh  
Setchell & Gardner, 1920  
Friday Harbor, Wash.

BRYOPSIS PLUMOSA var. PENNATA (Lamouroux) Børgesen  
Dawson, 1944  
Is. Tiburón, Gulf of Calif.



**Fam. Derbesiaceae**

DERBESIA LAMOUROUXII (J. Agardh) Solier  
Setchell & Gardner, 1920  
On the coast near Tijuana, Baja Calif.

DERBESIA MARINA (Lyngbye) Kjellman  
Smith, 1944  
Sitka, Alaska to San Diego, Calif.

DERBESIA PACIFICA Jao  
Jao, 1937  
Turn Is., Wash.

DERBESIA VAUCHERIAEFORMIS (Harvey) J. Agardh  
Jao, 1937  
Whidbey, Is., Wash.

**Fam. Vaucheriaceae**

VAUCHERIA LITORIA Bang & C. Agardh  
Jao, 1937  
San Juan Is., Wash.

**Fam. Phyllosiphonaceae**

OSTREOBIUM QUEKETTII Bornet & Flahault  
Jao, 1937; Taylor, 1945  
Puget Sound, Wash.; Is. Clarion, Revilla Gigedo Arch.

OSTREOBIUM REINECKEI Bornet  
Setchell & Gardner, 1930; Taylor, 1945  
Is. Guadalupe, Baja Calif.; Is. Clarion, Revilla Gigedo Arch.

**Fam. Caulerpaceae**

CAULERPA PELTATA (Turner) Lamouroux  
Taylor, 1945  
Tangola-Tangola, Oaxaca

CAULERPA PINNATA f. PECTINATA (Kützing) Weber van Bosse  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif.

CAULERPA RACEMOSA var. CHEMNITZIA (Esper) Weber van Bosse  
Dawson, 1944  
Bahía Agua Verde, Baja Calif.

CAULERPA RACEMOSA var. CLAVIFERA f. MACROPHYSA (Kützing) Weber van Bosse  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.

- CAULERPA RACEMOSA var. LAETEVIRENS f. CYLINDRACEAE  
(Sonder) Weber van Bosse  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.
- CAULERPA RACEMOSA var. LAETEVIRENS f. TYPICA Weber van  
Bosse  
Setchell & Gardner, 1930; Taylor, 1945  
Is. Guadalupe, Baja Calif.; Is. Clarion, Revilla Gigedo  
Arch.
- CAULERPA RACEMOSA var. OCCIDENTALIS (C. Agardh) Børgesen  
Taylor, 1945  
Is. Clarion, Revilla Gigedo Arch.
- CAULERPA RACEMOSA var. UVIFERA (Turner) Weber van  
Bosse  
Dawson, 1944  
Is. Espíritu Santo, Gulf of Calif.
- CAULERPA SERTULARIOIDES (Gmelin) Howe  
Dawson, 1944; Taylor, 1945  
Is. Espíritu Santo, Gulf of Calif.; Tangola-Tangola,  
Oaxaca
- CAULERPA VANBOSSEAE Setchell & Gardner  
Dawson, 1944  
Is. Angel de la Guarda to Is. Espíritu Santo, Gulf of  
Calif.

### Fam. **Codiaceae**

- CODIUM AMPLIVESICULATUM Setchell & Gardner  
Dawson, 1944  
Pond Is., Gulf of Calif.
- CODIUM ANASTOMOSANS Setchell & Gardner  
Dawson, 1944  
Is. Angel de la Guarda to Is. Tiburón, Gulf of Calif.
- CODIUM CONJUNCTUM Setchell & Gardner  
Dawson, 1944  
Is. Tortuga, Gulf of Calif.
- CODIUM CUNEATUM Setchell & Gardner  
Dawson, 1944  
Vicinity of Smith Is., Gulf of Calif.
- CODIUM DECORTICATUM (Woodward) Howe  
Setchell, 1933; Taylor, 1939  
Bahía Magdalena, Baja Calif. ?

- CODIUM FERNANDEZIANUM Setchell  
Taylor, 1945  
Bahía Santa María, Baja Calif.
- CODIUM FRAGILE (Suringar) Hariot  
Smith, 1944; Taylor, 1945; Dawson, 1945E  
Alaska to Puerto San Bartolomé, Baja Calif.
- CODIUM ISABELAE Taylor  
Taylor, 1945  
Is. Clarion, Revilla Gigedo Arch.
- CODIUM LONGIRAMOSUM Setchell & Gardner  
Dawson, 1944; Taylor, 1945  
Pond Is., Gulf of Calif.; Is. Clarion; Is. Socorro, Revilla  
Gigedo Arch.; Bahía Petatlán, Guerrero
- CODIUM MACDOUGALII Dawson  
Dawson, 1944  
Puerto Libertad, Sonora
- CODIUM PALMERI Dawson  
Dawson, 1945C  
Is. Guadalupe, Baja Calif.
- CODIUM SETCHELLII Gardner  
Smith, 1944; Taylor, 1945  
Sitka, Alaska to Carmel, Calif.; Is. Jacarita, Panamá ?
- CODIUM SIMULANS Setchell & Gardner  
Setchell & Gardner, 1930; Dawson, 1944; 1945C  
La Jolla, Calif. to Is. Clarion, Revilla Gigedo Arch.;  
Gulf of Calif.
- CODIUM RITTERI Setchell & Gardner  
Setchell & Gardner, 1920  
Kodiak Is., Alaska to Vancouver Is., B. C.
- HALIMEDA DISCOIDEA Decaisne  
Dawson, 1944; Taylor, 1945  
Is. Angel de la Guarda, Gulf of Calif. to Golfo Dulce,  
Costa Rica
- HALIMEDA OPUNTIA (Linnaeus) Lamouroux  
Setchell & Gardner, 1930; Taylor, 1945  
Is. Guadalupe, Baja Calif.; Clarion, Revilla Gigedo Arch.
- HALIMEDA TUNA (Ellis & Solander) Lamouroux  
Taylor, 1945  
Is. Clarion, Revilla Gigedo Arch.
- CHLORODESMIS MEXICANA Taylor  
Taylor, 1945; *Chlorodesmis comosa* in Setchell & Gard-  
ner, 1930  
Is. Guadalupe, Baja Calif. to Tangola-Tangola, Oaxaca

# PHAEOPHYCEAE

## (BROWN ALGAE)

### Order ECTOCARPALES

#### Fam. Ectocarpaceae

- PYLAIELLA GARDNERI Collins  
Smith, 1944  
San Francisco to Carmel, Calif.
- PYLAIELLA LITTORALIS (Linnaeus) Kjellman  
Smith, 1944  
Bering Sea to San Pedro, Calif.
- PYLAIELLA TENELLA Setchell & Gardner  
Smith, 1944  
Neah Bay, Wash.; Monterey, Calif.
- PYLAIELLA UNILATERALIS Setchell & Gardner  
Setchell & Gardner, 1925  
Coos Bay, Oregon
- PYLAIELLA WASHINGTONENSIS Jao  
Jao, 1937  
Seattle, Wash.
- ECTOCARPUS ACUMINATUS Saunders  
Smith, 1944  
Pacific Grove to San Pedro, Calif.
- ECTOCARPUS ACUTUS Setchell & Gardner  
Smith, 1944  
Puget Sound to Carmel, Calif.
- ECTOCARPUS AFFINIS Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska
- ECTOCARPUS BREVIARTICULATUS J. Agardh  
Setchell & Gardner, 1925; 1930  
Is. Guadalupe, Baja Calif.; San Agustin, Oaxaca
- ECTOCARPUS BRYANTII Setchell & Gardner  
Dawson, 1944  
La Paz, Baja Calif.
- ECTOCARPUS CHANTRANSIOIDES Setchell & Gardner  
Setchell & Gardner, 1925  
Santa Monica, Calif.



- ECTOCARPUS CHITONICOLA Saunders  
Smith, 1944  
Monterey Peninsula, Calif.
- ECTOCARPUS COMMENSALIS Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.
- ECTOCARPUS CONFERVOIDES (Roth) Le Jolis  
Setchell & Gardner, 1925  
Yakutat Bay, Alaska to Whidbey Is., Wash.
- ECTOCARPUS CONFERVOIDES f. PARVUS (Saunders) Setchell & Gardner  
Setchell & Gardner, 1925  
San Francisco to San Diego, Calif.
- ECTOCARPUS CONFERVOIDES f. PYGMAEUS (Areschoug) Kjellman  
Smith, 1944; Dawson, 1945E  
Shumagin Is., Alaska to Carmel, Calif.; Punta Descanso, Baja Calif.
- ECTOCARPUS CONFERVOIDES f. TYPICUS Kuckuck  
Setchell & Gardner, 1925  
Juneau, Alaska to San Francisco, Calif.
- ECTOCARPUS CORTICULATUS Saunders  
Smith, 1944  
Popof Is., Alaska to San Pedro, Calif.
- ECTOCARPUS CYLINDRICUS Saunders  
Smith, 1944  
Monterey Peninsula, Calif.
- ECTOCARPUS CYLINDRICUS f. CODIOPHILUS Setchell & Gardner  
Smith, 1944; Dawson, 1945B  
Monterey Peninsula; La Jolla, Calif.
- ECTOCARPUS DUCHASSAINGIANUS Grunow  
Setchell & Gardner, 1930; Taylor, 1945  
Is. Guadalupe, Baja Calif.; Is. María Magdalena, Nayarit; Is. Socorro, Revilla Gigedo Arch.
- ECTOCARPUS ELLIPTICUS Saunders  
Smith, 1944  
Monterey Peninsula, Calif.
- ECTOCARPUS ENSENADANUS Gardner  
Gardner, 1940  
Ensenada, Baja Calif.
- ECTOCARPUS ERAMOSUS Setchell & Gardner  
Setchell & Gardner, 1925  
Tomales Bay, Calif.

ECTOCARPUS FLAGELLIFERUS Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska

ECTOCARPUS FLOCCULIFORMIS Setchell & Gardner  
Setchell & Gardner, 1925  
La Jolla, Calif.

ECTOCARPUS FRUCTUOSUS Setchell & Gardner  
Setchell & Gardner, 1925  
Moss Beach, San Mateo Co., Calif.

ECTOCARPUS GLOBIFER Kützing  
Setchell & Gardner, 1925  
San Pedro to La Jolla, Calif.

ECTOCARPUS GONODIODES Setchell & Gardner  
Smith, 1944; Dawson, 1944  
Carmel, Calif.; Smith Is., Gulf of Calif.

ECTOCARPUS GRANULOSIDES Setchell & Gardner  
Smith, 1944; Dawson, 1945B  
Monterey to La Jolla, Calif.

ECTOCARPUS GRANULOSIDES var. PYGMAEUS Setchell & Gardner  
Setchell & Gardner, 1937  
Is. San Martin, Baja Calif.

ECTOCARPUS GRANULOSUS (J. E. Smith) C. Agardh  
Smith, 1944; Dawson, 1945B; 1945E  
Puget Sound, Wash. to Punta Descanso, Baja Calif.

ECTOCARPUS HANCOCKII Dawson  
Dawson, 1944  
Turner's Is., Gulf of Calif.

ECTOCARPUS HEMISPHERICUS Saunders  
Setchell & Gardner, 1925  
San Pedro to San Diego, Calif.

ECTOCARPUS HEMISPHERICUS f. MINOR Saunders  
Setchell & Gardner, 1925; Dawson, 1945B  
Southern Calif.

ECTOCARPUS ISOPODICOLA Dawson  
Dawson, 1946  
Newport Bay, Calif.

ECTOCARPUS LUTEOLUS Sauvageau  
Setchell & Gardner, 1925  
San Francisco, Calif.

- ECTOCARPUS MESOGLOIAE Setchell & Gardner  
Smith, 1944  
Carmel, Calif.
- ECTOCARPUS MITCHELLAE Harvey  
Setchell & Gardner, 1925; Dawson, 1944  
Southern Calif. to San Jose del Cabo, Baja Calif.; Punta  
Peñasco, Sonora
- ECTOCARPUS MUCRONATUS Saunders  
Setchell & Gardner, 1925; Dawson, 1944  
Vancouver Is., B. C. to San Pedro, Calif.; Punta Peñ-  
asco, Sonora
- ECTOCARPUS OVIGER Harvey  
Smith, 1944  
Puget Sound to Carmel, Calif.
- ECTOCARPUS PARKSII Setchell & Gardner  
Setchell & Gardner, 1925  
San Francisco Bay, Calif.
- ECTOCARPUS SAUNDERSII Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.
- ECTOCARPUS SILICULOSUS (Dillwyn) Lyngbye  
Setchell & Gardner, 1925; Sanborn & Doty, 1946  
Coos Bay, Oregon to San Francisco Bay, Calif.
- ECTOCARPUS SILICULOSUS f. SUBULATUS (Kützinger) Setchell &  
Gardner  
Setchell & Gardner, 1925  
San Francisco Bay, Calif.
- ECTOCARPUS SIMULANS Setchell & Gardner  
Smith, 1944  
Monterey, Calif.
- ECTOCARPUS SOCIALIS Setchell & Gardner  
Setchell & Gardner, 1925; Dawson, 1945B  
Southern Calif.
- ECTOCARPUS SONORENSIS Dawson  
Dawson, 1944  
Guaymas, Sonora
- ECTOCARPUS TAONIAE Setchell & Gardner  
Setchell & Gardner, 1925  
San Pedro, Calif.
- ECTOCARPUS TERMINALIS Kützinger  
Setchell & Gardner, 1925  
Unalaska, Alaska to Laguna Beach, Calif.

- ECTOCARPUS TOMENTOSUS (Hudson) Lyngbye  
Smith, 1944  
Kodiak Is., Alaska to Laguna Beach, Calif.
- ECTOCARPUS VARIABILIS (Saunders) G. M. Smith  
Smith, 1944; Dawson, 1945E; *Ectocarpus confervoides*  
f. *variabilis* in Dawson, 1944  
Puget Sound, Wash. to Punta Descanso, Baja Calif.;  
Is. Tiburón, Gulf of Calif.
- STREBLONEMA AECIDIOIDES f. PACIFICUM Setchell & Gardner  
Setchell & Gardner, 1925  
Neah Bay, Wash.
- STREBLONEMA ANOMALUM Setchell & Gardner  
Smith, 1944  
Monterey; San Pedro, Calif.
- STREBLONEMA CODICOLA Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.
- STREBLONEMA CORYMBIFERUM Setchell & Gardner  
Smith, 1944  
Monterey; San Pedro, Calif.
- STREBLONEMA DESMARESTIAE Gardner  
Gardner, 1940  
San Juan Is., Wash.
- STREBLONEMA EVAGATUM Setchell & Gardner  
Smith, 1944  
Monterey, Calif.
- STREBLONEMA INVESTIENS (Collins) Setchell & Gardner  
Setchell & Gardner, 1925; Dawson, 1945B  
San Pedro to La Jolla, Calif.
- STREBLONEMA IRREGULARE Saunders  
Setchell & Gardner, 1925  
Sitka, Alaska
- STREBLONEMA JOHNSTONAE Setchell & Gardner  
Setchell & Gardner, 1925  
San Pedro, Calif.
- STREBLONEMA MINUTISSIUM Saunders  
Setchell & Gardner, 1925  
Sitka, Alaska
- STREBLONEMA MYRIONEMATOIDES Setchell & Gardner  
Setchell & Gardner, 1925  
Moss Beach, San Mateo Co., Calif.



STREBLONEMA PACIFICUM Saunders  
Setchell & Gardner, 1925  
Yakutat Bay, Alaska to San Francisco Bay, Calif.

STREBLONEMA PENETRALE Setchell & Gardner  
Smith, 1944  
Pacific Grove, Calif.

STREBLONEMA PORPHYRAE Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.

STREBLONEMA RUGOSUM Setchell & Gardner  
Setchell & Gardner, 1925  
Friday Harbor, Wash.

STREBLONEMA SCABIOSUM Setchell & Gardner  
Setchell & Gardner, 1925  
San Francisco, Calif.

STREBLONEMA TRANSFIXUM Setchell & Gardner  
Setchell & Gardner, 1925  
San Pedro, Calif.

STREBLONEMA VORAX Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska

### Fam. Ralfsiaceae

RALFSIA CALIFORNICA Setchell & Gardner  
Setchell & Gardner, 1925; Dawson, 1944; Taylor, 1945  
Central Calif.; Is. Tiburón to Is. Espíritu Santo, Gulf of  
Calif.; Bahía Tenacatita, Jalisco

RALFSIA CLAVATA (Carmichael) Crouan  
Setchell & Gardner, 1925  
Unalaska Bay, Alaska

RALFSIA FUNGIFORMIS (Gunnerus) Setchell & Gardner  
Setchell & Gardner, 1925; Sanborn & Doty, 1946  
Bering Sea to Coos Bay, Oregon

RALFSIA HANCOCKII Dawson  
Dawson, 1944  
San Jose del Cabo, Baja Calif.

RALFSIA HESPERIA Setchell & Gardner  
Smith, 1944  
Carmel; Corona del Mar, Calif.

RALFSIA OCCIDENTALIS Hollenberg  
Taylor, 1945  
Is. Socorro, Revilla Gigedo Arch.

- RALFSIA PACIFICA* Hollenberg (ms)  
Smith, 1944; Dawson, 1944  
Unalaska, Alaska to Baja Calif.; northern Gulf of Calif.
- HAPTEROPHYCUS CANALICULATUS* Setchell & Gardner  
Hollenberg, 1941  
Redondo, Calif. to Punta Banda, Baja Calif.
- LITHODERMA FATISCENS* Areschoug  
Setchell & Gardner, 1925  
Bering Sea; Unalaska, Alaska
- HAPALOSPONGIDION GELATINOSUM* Saunders  
Hollenberg, 1942; Smith, 1944  
Carmel, Calif. to Punta Banda, Baja Calif.; Bahía Petatlán, Guerrero

### Fam. *Elachistaceae*

- HALOTHRIX LUMBRICALIS* (Kützinger) Reinke  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.
- ELACHISTEA FUCICOLA* (Vellay) Areschoug  
Setchell & Gardner, 1925  
Sitka, Alaska to Coos Bay, Oregon
- ELACHISTEA LUBRICA* Ruprecht  
Setchell & Gardner, 1925  
Prince William Sound to Wrangell, Alaska
- GONODIA JOHNSTONII* Setchell & Gardner  
Dawson, 1944  
Is. San Marcos, Gulf of Calif.
- GONODIA MARCHANTAE* Setchell & Gardner  
Dawson, 1944  
La Paz, Baja Calif.

### Fam. *Sphacelariaceae*

- SPHACELARIA BREVICORNE* Setchell & Gardner  
Dawson, 1944; Setchell & Gardner, 1925  
La Paz and vicinity, Baja Calif.
- SPHACELARIA CALIFORNICA* Sauvageau  
Setchell & Gardner, 1925  
San Pedro to San Diego, Calif.
- SPHACELARIA DIDICHOTOMA* Saunders  
Smith, 1944  
Monterey to southern Calif.

*SPHACELARIA FURCIGERA* Kützing  
Setchell & Gardner, 1930; Dawson, 1944  
Is. Tiburón, Gulf of Calif.; Is. Guadalupe; La Paz,  
Baja Calif.

*SPHACELARIA HANCOCKII* Dawson  
Dawson, 1944  
Turner's Is., Gulf of Calif.; San Jose del Cabo, Baja  
Calif.

*SPHACELARIA MASONII* Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Clarion, Revilla Gigedo Arch.

*SPHACELARIA MEXICANA* Taylor  
Taylor, 1945  
Is. Socorro, Revilla Gigedo Arch.

*SPHACELARIA NOVAE-HOLLANDIAE* Sonder  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.

*SPHACELARIA RACEMOSA* Greville  
Setchell & Gardner, 1925  
Bering Sea to Whidbey Is., Wash.

*SPHACELARIA SUBFUSCA* Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska to Redondo, Calif.

## Order **CUTLERIALES**

### Fam. **Cutleriaceae**

*CUTLERIA HANCOCKII* Dawson  
Dawson, 1944  
Is. Tiburón, Gulf of Calif.

## Order **TILOPTERIDALES**

### Fam. **Tilopteridaceae**

*MASONOPHYCUS PARADOXA* Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Clarion, Revilla Gigedo Arch.

Order **DICTYOTALES**Fam. **Dictyotaceae**

- DICTYOTA BINGHAMIAE** J. Agardh  
Setchell & Gardner, 1925; Taylor, 1945  
Southern Calif. to Bahía San Bartolomé, Baja Calif.  
Is. Secas, Panamá
- DICTYOTA CONCRESCENS** Taylor  
Taylor, 1945  
Cabo San Lazaro, Baja Calif.
- DICTYOTA CRENULATA** J. Agardh  
Dawson, 1944; Taylor, 1945  
Cape district, Baja Calif. to Puerto Culebra, Costa Rica
- DICTYOTA CRIBROSA** Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.
- DICTYOTA DIVARICATA** Lamouroux, prox.  
Taylor, 1945  
Is. Socorro, Revilla Gigedo Arch.; Bahía Tenacatita,  
Jalisco
- DICTYOTA FLABELLATA** (Collins) Setchell & Gardner  
Smith, 1944; Taylor, 1945  
Monterey to La Jolla, Calif.; Puerto Culebra, Costa  
Rica; Is. Secas, Panamá
- DICTYOTA HESPERIA** Setchell & Gardner  
Dawson, 1944  
Northern Gulf of Calif.
- DICTYOTA JOHNSTONII** Setchell & Gardner  
Dawson, 1944  
Northern Gulf of Calif.
- DICTYOTA MASONII** Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Clarion, Revilla Gigedo Arch.
- DICTYOTA VIVESII** Howe  
Dawson, 1944; Taylor, 1945  
Punta Gorda; Cabo San Lazaro, Baja Calif.; Is. María  
Magdalena, Nayarit
- DICTYOPTERIS DELICATULA** Lamouroux  
Taylor, 1939; 1945; *Neurocarpus delicatula* in Setchell  
& Gardner, 1925  
Is. Clarion; Is. Socorro, Revilla Gigedo Arch.; Clipper-  
ton Is.



DICTYOPTERIS JOHNSTONEI Gardner  
Gardner, 1940  
Santa Catalina Is., Calif.

DICTYOPTERIS ZONARIOIDES Farlow  
*Neurocarpus zonarioides* in Setchell & Gardner, 1925;  
Dawson, 1944  
Southern Calif. to San Jose del Cabo, Baja Calif.; north-  
ern Gulf of Calif.

TAONIA LENNEBACKERAE Farlow  
Setchell & Gardner, 1925; Taylor, 1945  
Southern Calif. to Bahía San Bartolomé, Baja Calif.

SYRINGODERMA ABYSSICOLA (Setchell & Gardner) Levring  
Levring, 1940; *Chlanidophora abyssicola* in Setchell &  
Gardner, 1925  
San Juan Is., Wash.

ZONARIA FARLOWII Setchell & Gardner  
Setchell & Gardner, 1925; 1930; Taylor, 1945  
Southern Calif. to Bahía Santa María, Baja Calif.

POCOCKIELLA VARIEGATA (Lamouroux) Papenfuss  
Taylor, 1945; *Zonaria variegata* in Taylor, 1939  
Is. Clarion; Is. Socorro, Revilla Gigedo Arch.; Clipper-  
ton Is.

PADINA DURVILLAEI Bory  
Dawson, 1944; Taylor, 1945  
Is. Cedros, Baja Calif. to Panamá

PADINA CAULESCENS Thivy  
Taylor, 1945  
Is. María Magdalena, Nayarit

PADINA CRISPATA Thivy  
Taylor, 1945  
Is. María Madre, Nayarit; Golfo Dulce, Costa Rica;  
Bahía Honda, Panamá

PADINA MEXICANA Dawson  
Dawson, 1944  
Turner's Is., Gulf of Calif.

PADINA TETRASTROMATICA Hauck  
Setchell & Gardner, 1930  
Is. María Madre, Nayarit ?

Order **CHORDARIALES**Fam. **Corynophloeaceae**

PETROSPONGIUM RUGOSUM (Okamura) Setchell & Gardner  
Smith, 1944  
San Mateo Co. to San Diego, Calif.

LEATHESIA DIFFORMIS (Linnaeus) Areschoug  
Smith, 1944  
Bering Sea to San Pedro, Calif.

LEATHESIA NANA Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.

Fam. **Myrionemataceae**

MYRIONEMA ATTENUATUM Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.

MYRIONEMA BALTICUM f. CALIFORNICUM Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.

MYRIONEMA BALTICUM f. PEDICELLATUM Setchell & Gardner  
Setchell & Gardner, 1925  
Point Carmel, Calif.

MYRIONEMA COMPSONEMATOIDES Setchell & Gardner  
Setchell & Gardner, 1925  
Friday Harbor, Wash.

MYRIONEMA CORUNNAE f. ANGULATUM Setchell & Gardner  
Setchell & Gardner, 1925  
San Francisco, Calif.

MYRIONEMA CORUNNAE f. STERILE Setchell & Gardner  
Smith, 1944  
Carmel, Calif.

MYRIONEMA CORUNNAE f. UNIFORME Setchell & Gardner  
Setchell & Gardner, 1925  
San Mateo Co., Calif.

MYRIONEMA FOECUNDUM f. RAMULOSUM Setchell & Gardner  
Setchell & Gardner, 1925  
Friday Harbor, Wash.

- MYRIONEMA FOECUNDUM f. SIMPLICISSIMUM Setchell & Gardner  
Setchell & Gardner, 1925  
Kodiak Is., Alaska to central California
- MYRIONEMA FOECUNDUM f. SUBULATUM Setchell & Gardner  
Setchell & Gardner, 1925  
San Francisco, Calif.
- MYRIONEMA GLOBOSUM f. AFFINE Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska to Point Carmel, Calif.
- MYRIONEMA MINUTISSIMUM Setchell & Gardner  
Setchell & Gardner, 1925  
San Francisco, Calif.
- MYRIONEMA OBSCURUM Setchell & Gardner  
Setchell & Gardner, 1925  
Moss Beach, San Mateo Co., Calif.
- MYRIONEMA PHYLLOPHYLLUM Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska
- MYRIONEMA PRIMARIUM Setchell & Gardner  
Smith, 1944  
Alaska to Carmel, Calif.
- MYRIONEMA SETIFERUM Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska
- MYRIONEMA STRANGULANS Greville  
Smith, 1944  
Sitka, Alaska to Carmel, Calif.
- COMPSONEMA CONIFERUM Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.
- COMPSONEMA DUBIUM Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.
- COMPSONEMA FASCICULATUM Setchell & Gardner  
Smith, 1944  
Pacific Grove, Calif.
- COMPSONEMA FRUCTUOSUM Setchell & Gardner  
Setchell & Gardner, 1925  
Tomaes Bay, Calif.
- COMPSONEMA IMMIXTUM Setchell & Gardner  
Dawson, 1944  
Is. Partida, Gulf of Calif.

- COMPSONEMA INTRICATUM Setchell & Gardner  
Smith, 1944  
Carmel, Calif.
- COMPSONEMA MYRIONEMATOIDES Setchell & Gardner  
Smith, 1944  
Pacific Grove, Calif.
- COMPSONEMA NUMMULOIDES Setchell & Gardner  
Setchell & Gardner, 1925  
Moss Beach, San Mateo Co., Calif.
- COMPSONEMA PUSILLUM Setchell & Gardner  
Smith, 1944  
Carmel, Calif.
- COMPSONEMA RAMULOSUM Setchell & Gardner  
Smith, 1944  
Carmel, Calif.
- COMPSONEMA SECUNDUM Setchell & Gardner  
Smith, 1944  
Moclips, Wash. to Carmel, Calif.
- COMPSONEMA SERPENS Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.
- COMPSONEMA SESSILE Setchell & Gardner  
Setchell & Gardner, 1925  
Neah Bay, Wash.
- COMPSONEMA SPECIOSUM f. PILIFERUM Setchell & Gardner  
Setchell & Gardner, 1925  
Moclips, Wash.
- COMPSONEMA SPORANGIIFERUM Setchell & Gardner  
Setchell & Gardner, 1925  
Neah Bay, Wash.
- COMPSONEMA STREBLONEMATOIDES Setchell & Gardner  
Setchell & Gardner, 1925  
Tomales Bay, Calif.
- COMPSONEMA TENUE Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska

### Fam. Chordariaceae

- AEGIRA VIRESCENS (Carmichael) Setchell & Gardner  
Setchell & Gardner, 1925; Dawson, 1945  
Shumagin Is. to Sitka, Alaska; La Jolla, Calif.



HAPLOGLOIA ANDERSONII (Farlow) Levring  
Smith, 1944; Dawson, 1945E  
Sitka, Alaska to Cabo Colnett, Baja Calif.

HAPLOGLOIA KUCKUCKII Kylin  
Kylin, 1940  
Sitka, Alaska to Friday Harbor, Wash.

CHORDARIA DISSESSA Setchell & Gardner  
Setchell & Gardner, 1925  
Orcas Is., Wash.

CHORDARIA FLAGELLIFORMIS (Müller) C. Agardh  
Setchell & Gardner, 1925  
Bering Sea to Sitka, Alaska

CHORDARIA GRACILIS Setchell & Gardner  
Setchell & Gardner, 1925  
Amaknak Is., Alaska

SAUNDERSELLA SIMPLEX (Saunders) Kylin  
Kylin, 1940  
Cook Inlet, Alaska to Vancouver, B. C.

Fam. **Heterochordariaceae**

HETEROCHORDARIA ABIETINA (Ruprecht) Setchell & Gardner  
Smith, 1944  
Bering Sea to Point Conception, Calif.

Fam. **Spermatochneaceae**

NEMACYSTUS BRANDEGEEI (Setchell & Gardner) Kylin  
Dawson, 1944  
Punta Peñasco, Sonora; La Paz, Baja Calif.

Order **SPOROCHNALES**

Fam. **Sporochneaceae**

SPOROCHNUS PEDUNCULATUS (Hudson) C. Agardh  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.

Order **DESMARESTIALES**

Fam. **Desmarestiaceae**

DESMARESTIA FARCTA Setchell & Gardner  
Setchell & Gardner, 1925  
Argyle, San Juan Co., Wash.

- DESMARESTIA FILAMENTOSA Dawson  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif.
- DESMARESTIA FOLIACEA Pease  
Setchell & Gardner, 1925  
San Juan Co., Wash.
- DESMARESTIA HERBACEA (Turner) Lamouroux  
Smith, 1944; Setchell & Gardner, 1930; Taylor, 1945;  
Dawson, 1945E  
Kodiak Is., Alaska to Is. Cedros, Baja Calif.
- DESMARESTIA INTERMEDIA Postels & Ruprecht  
Setchell & Gardner, 1925  
Bering Sea to Puget Sound, Wash.
- DESMARESTIA JORDANII Gardner  
Gardner, 1940  
Ventura, Calif.
- DESMARESTIA LATIFRONS (Ruprecht) Kützing  
Smith, 1944  
Coos Bay, Oregon to Point Sur, Calif.
- DESMARESTIA LATISSIMA Setchell & Gardner  
Setchell & Gardner, 1925  
San Juan Co., Wash.
- DESMARESTIA LIGULATA (Lightfoot) Lamouroux  
Setchell & Gardner, 1925  
San Juan Is., Wash.
- DESMARESTIA LINEARIS Gardner  
Smith, 1944  
Monterey Peninsula, Calif.
- DESMARESTIA MEDIA (C. Agardh) Greville  
Setchell & Gardner, 1925  
Unalaska, Alaska
- DESMARESTIA MEDIA var. TENUIS Setchell & Gardner  
Setchell & Gardner, 1925  
Juneau, Alaska to Puget Sound, Wash.
- DESMARESTIA MEXICANA Dawson  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif.
- DESMARESTIA MUNDA Setchell & Gardner  
Smith, 1944; Dawson, 1945A  
Puget Sound, Wash. to Is. Cedros, Baja Calif.

DESMARESTIA PACIFICA Setchell & Gardner  
Setchell & Gardner, 1925; 1930  
Santa Catalina Is., Calif.; Is. Guadalupe, Baja Calif. ?

DESMARESTIA VIRIDIS (Müller) Lamouroux  
Smith, 1944  
Carmel, Calif.

### Order **PUNCTARIALES**

#### Fam. **Punctariaceae**

PUNCTARIA CHARTACEA Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska

PUNCTARIA EXPANSA Setchell & Gardner  
Setchell & Gardner, 1925  
Whidbey Is., Wash.

PUNCTARIA HESPERIA Setchell & Gardner  
Smith, 1944  
Victoria, B. C.; Monterey; San Pedro, Calif.

PUNCTARIA LATIFOLIA Greville  
Setchell & Gardner, 1925  
Metlacatla; Baranoff Is., Alaska

PUNCTARIA LOBATA (Saunders) Setchell & Gardner  
Setchell & Gardner, 1925  
Prince William Sound to Sitka, Alaska

PUNCTARIA OCCIDENTALIS Setchell & Gardner  
Smith, 1944  
Monterey, Calif.

PUNCTARIA ORBICULATA Jao  
Jao, 1937  
San Juan Is., Wash.

PUNCTARIA PLANTAGINEA Greville  
Saunders, 1901; Setchell & Gardner, 1925  
Yakutat Bay, Alaska ?

HALORHIPIS WINSTONII (Anderson) Saunders  
Smith, 1944  
Monterey Peninsula, Calif.

#### Fam. **Asperococcaceae**

SORANTHERA ULVOIDEA Postels & Ruprecht  
Smith, 1944  
Unalaska, Alaska to southern Calif.

SORANTHERA ULVOIDEA f. DIFFORMIS Setchell & Gardner  
Setchell & Gardner, 1925  
Bering Sea to Cape Flattery, Wash.

MYELOPHYCUS INTESTINALE Saunders  
Setchell & Gardner, 1925  
Shumagin Is., Alaska to Puget Sound, Wash.

MYELOPHYCUS INTESTINALE f. TENUE Setchell & Gardner  
Setchell & Gardner, 1925  
Coos Bay, Oregon to central Calif.

### Fam. Scytosiphonaceae

SCYTOSIPHON LOMENTARIA (Lyngbye) J. Agardh  
Smith, 1944; Dawson, 1945E  
Bering Sea to Punta Descanso, Baja Calif.

SCYTOSIPHON LOMENTARIA f. CYLINDRICUS MACULATUS  
Setchell & Gardner  
Setchell & Gardner, 1925  
San Francisco, Calif.

SCYTOSIPHON LOMENTARIA f. TYPICA Rosenvinge  
Smith, 1944; Dawson, 1945E  
Bering Sea to Punta Descanso, Baja Calif.

SCYTOSIPHON LOMENTARIA var. COMPLANATUS Rosenvinge  
Smith, 1944  
Cape Arago, Oregon to Carmel, Calif.

ILEA FASCIA (Müller) Fries  
Smith, 1944; Dawson, 1945E  
Unalaska, Alaska to Cabo Colnett, Baja Calif.

ILEA FASCIA f. CAESPITOSA Setchell & Gardner  
Setchell & Gardner, 1925  
Alaska

ILEA FASCIA f. DEBILIS Setchell & Gardner  
Setchell & Gardner, 1925  
San Juan Is., Wash.

ILEA FASCIA f. TYPICA Setchell & Gardner  
Setchell & Gardner, 1925  
Puget Sound, Wash. to southern Calif.

ILEA FASCIA f. ZOSTERIFOLIA Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.

ENDARACHNE BINGHAMIAE J. Agardh  
Setchell & Gardner, 1925  
Southern Calif. to Ensenada, Baja Calif.



- COLPOMENIA RAMOSA Taylor  
Taylor, 1945  
Is. Cedros, Baja Calif.; Bahía Salinas; Port Parker,  
Costa Rica
- COLPOMENIA SINUOSA (Roth) Derbés & Solier  
Setchell & Gardner, 1925; 1930; Smith, 1944; Dawson,  
1944; Taylor, 1945  
Yakutat Bay, Alaska to Port Parker, Costa Rica
- COLPOMENIA SINUOSA f. DEFORMANS Setchell & Gardner  
Setchell & Gardner, 1925; Dawson, 1944; Taylor, 1945;  
*Scytosiphon bullosus* in Smith, 1944.  
Cook Inlet, Alaska to Bahía San Bartolomé, Baja Calif.;  
Gulf of Calif.
- COLPOMENIA SINUOSA f. EXPANSA Saunders  
Setchell & Gardner, 1925  
Avalon, Santa Catalina Is., Calif.
- COLPOMENIA SINUOSA f. TUBERCULATA (Saunders) Setchell  
& Gardner  
Setchell & Gardner, 1925; Dawson, 1944  
Unalaska, Alaska to La Paz, Baja Calif.; Gulf of Calif.
- ROSENVINGEA INTRICATA (J. Agardh) Børgesen  
Dawson, 1944; Taylor, 1945  
Bahía Tepoca, Sonora to Is. Socorro, Revilla Gigedo  
Arch.
- HYDROCLATHRUS CLATHRATUS (Bory) Howe  
Dawson, 1944; 1945B  
Southern Calif. to central México; southern Gulf of  
Calif.

### Fam. **Coilodesmaceae**

- COILODESME BULLIGERA Stroemfelt  
Setchell & Gardner, 1925  
Shumagin Is., Alaska to Coos Bay, Oregon
- COILODESME CALIFORNICA (Ruprecht) Kjellman  
Smith, 1944; Connell, 1928; Dawson, 1945C  
Departure Bay, B. C. to La Jolla, Calif.
- COILODESME CORRUGATA Setchell & Gardner  
Setchell & Gardner, 1925  
Santa Catalina Is., Calif.
- COILODESME CYSTOSEIRAE (Ruprecht) Setchell & Gardner  
Setchell & Gardner, 1925  
Kukak Bay; Yakutat Bay, Alaska

COILODESME POLYGNAMPTA Setchell & Gardner  
Setchell & Gardner, 1925  
Amaknak Is., Unalaska, Alaska

COILODESME RIGIDA Setchell & Gardner  
Setchell & Gardner, 1925  
Redondo to San Diego, Calif.

COILODESME SITCHENSIS Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska

PHAEOSTROPHION IRREGULARE Setchell & Gardner  
Setchell & Gardner, 1925  
Coos Bay, Oregon; Bolinas, Calif.

#### Fam. **Striariaceae**

STICTYOSIPHON TORTILIS (Ruprecht) Reinke  
Smith, 1944  
Alaska; Monterey Peninsula, Calif.

#### Fam. **Chnoosporaceae**

CHNOOSPORA PACIFICA J. Agardh  
Dawson, 1944  
La Paz, Baja Calif. to St. Augustin, Oaxaca

CHNOOSPORA PANNOSA J. Agardh  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.

#### Fam. **Ishigiaceae**

ISHIGE FOLIACEA Okamura  
Dawson, 1944  
Northern Gulf of Calif.

### Order **DICTYOSIPHONALES**

#### Fam. **Dictyosiphonaceae**

DICTYOSIPHON FOENICULACEUS (Hudson) Greville  
Setchell & Gardner, 1925  
Bering Sea to Puget Sound, Wash.

DICTYOSIPHON HIPPUROIDES (Lyngbye) Kützing  
Setchell & Gardner, 1925  
Bering Sea to Unalaska, Alaska

DICTYOSIPHON HISPIDUS Kjellman  
Setchell & Gardner, 1925  
Orca, Alaska

DICTYOSIPHON SINICOLA Gardner  
Gardner, 1940  
Vancouver Is., B. C.; Puget Sound, Wash.

DICTYOSIPHON TENUIS Setchell & Gardner  
Setchell & Gardner, 1925  
Golofin Bay, Alaska

## Order LAMINARIALES

### Fam. Chordaceae

CHORDA FILUM (Linnaeus) Lamouroux  
- Setchell & Gardner, 1925  
- Bering Sea to Puget Sound, Wash.

### Fam. Laminariaceae

LAMINARIA ANDERSONII Eaton  
Smith, 1944  
Whidbey Is., Wash, to Carmel, Calif.

LAMINARIA COMPLANATA (Setchell & Gardner) Setchell  
Setchell & Gardner, 1925  
Friday Harbor, Wash.

LAMINARIA CUNEIFOLIA J. Agardh  
Setchell & Gardner, 1925  
Bering Sea to Puget Sound, Wash.

LAMINARIA CUNEIFOLIA f. AMPLISSIMA Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska to Cape Flattery, Wash.

LAMINARIA CUNEIFOLIA f. ANGUSTA Setchell & Gardner  
Setchell & Gardner, 1925  
Cape Flattery; Whidbey Is., Wash.

LAMINARIA CUNEIFOLIA f. SUBSIMPLEX Setchell & Gardner  
Setchell & Gardner, 1925  
Lower Puget Sound, Wash.

LAMINARIA DENTIGERA Kjellman  
Setchell & Gardner, 1925  
Aleutian Islands, Alaska

- LAMINARIA EPHEMERA Setchell  
Smith, 1944  
Puget Sound, Wash.; Monterey Peninsula, Calif.
- LAMINARIA FARLOWII Setchell  
Smith, 1944; Dawson, 1945E  
Santa Cruz, Calif. to Cabo Colnett, Baja Calif.
- LAMINARIA LONGIPES Bory  
Setchell & Gardner, 1925  
Agattu Is.; Kiska Is., Alaska
- LAMINARIA PERSONATA Setchell & Gardner  
Setchell & Gardner, 1925  
Yakutat Bay to Sitka, Alaska
- LAMINARIA PLATYMERIS De la Pylaie  
Setchell & Gardner, 1925  
Bering Sea to Straits of Juan de Fuca
- LAMINARIA SACCHARINA (Linnaeus) Lamouroux  
Setchell & Gardner, 1925  
Alaska to Coos Bay, Oregon
- LAMINARIA SACCHARINA f. LINEARIS J. Agardh  
Setchell & Gardner, 1925  
Unga, Alaska to Puget Sound, Wash.
- LAMINARIA SACCHARINI f. MEMBRANACEA J. Agardh  
Setchell & Gardner, 1925  
Alaska to Coos Bay, Oregon
- LAMINARIA SINCLAIRII (Harvey) Farlow  
Smith, 1944  
Vancouver Is., B. C. to San Luis Obispo Co., Calif.
- PLEUROPHYCUS GARDNERI Setchell & Saunders  
Setchell & Gardner, 1925  
Yakutat Bay, Alaska to Coos Bay, Oregon
- CYAMATHERE TRIPLICATA (Postels & Ruprecht) J. Agardh  
Setchell & Gardner, 1925  
Bering Sea to Puget Sound, Wash.
- COSTARIA COSTATA (Turner) Saunders  
Smith, 1944  
Shumagin Is., Alaska to San Pedro, Calif.
- THALASSIOPHYLLUM CLATHRUS (Gmelin) Postels & Ruprecht  
Setchell & Gardner, 1925  
Bering Sea to Straits of Juan de Fuca
- AGARUM CRIBROSUM Bory  
Setchell & Gardner, 1925  
Bering Sea to San Juan Is., Wash.



- AGARUM FIMBRIATUM Harvey  
Setchell & Gardner, 1925  
Puget Sound, Wash. to central Calif.
- HEDOPHYLLUM SESSILE (C. Agardh) Setchell  
Setchell & Gardner, 1925  
Yakutat Bay, Alaska to Point Sur, Calif.
- HEDOPHYLLUM SUBSESSILE (Areschoug) Setchell  
Sanborn & Doty, 1946  
Bering Sea; Coos Bay, Oregon
- ARTHROTHAMNUS BIFIDUS (Gmelin) J. Agardh  
Setchell & Gardner, 1925  
Aleutian Islands, Alaska
- DICTYONEURUM CALIFORNICUM Ruprecht  
Smith, 1944  
Vancouver Is., B. C. to San Luis Obispo Co., Calif.
- DICTYONEUOPSIS RETICULATA (Saunders) G. M. Smith  
Smith, 1944  
Monterey Peninsula, Calif.
- NEREOCYSTIS LUETKEANA (Mertens) Postels & Ruprecht  
Smith, 1944  
Shumagin Is., Alaska to Santa Barbara, Calif.
- POSTELSIA PALMAEFORMIS Ruprecht  
Smith, 1944  
Vancouver Is., B. C. to San Luis Obispo Co., Calif.
- MACROCYSTIS INTEGRIFOLIA Bory  
Smith, 1944  
Vancouver Is., B. C. to Carmel, Calif.
- MACROCYSTIS PYRIFERA (Linnaeus) C. Agardh  
Smith, 1944; Taylor, 1945  
Sitka, Alaska to Bahía Magdalena, Baja Calif.; cast  
ashore on Is. Clarion, Revilla Gigedo Arch.
- PELAGOPHYCUS PORRA (Leman) Setchell  
Setchell & Gardner, 1925  
Point Conception to San Diego, Calif.
- LESSONIOPSIS LITTORALIS (Farlow & Setchell) Reinke  
Smith, 1944  
Sitka, Alaska to Carmel, Calif.

### Fam. Alariaceae

- PTERYGOPHORA CALIFORNICA Ruprecht  
Smith, 1944; Dawson, 1945E  
Vancouver Is., B. C. to Punta Descanso, Baja Calif.

- ALARIA DOLICHORHACHIS Kjellman  
Setchell & Gardner, 1925  
Agattu Is., Alaska
- ALARIA FISTULOSA Postels & Ruprecht  
Setchell & Gardner, 1925  
Bering Sea to Wrangell, Alaska
- ALARIA FISTULOSA f. PLATYPHYLLA Setchell  
Setchell & Gardner, 1925  
Bering Sea to southeastern Alaska
- ALARIA FISTULOSA f. STENOPHYLLA Setchell  
Setchell & Gardner, 1925  
Bering Sea to southeastern Alaska
- ALARIA LANCEOLATA Kjellman  
Setchell & Gardner, 1925  
Bering Sea to Sitka, Alaska
- ALARIA MARGINATA Postels & Ruprecht  
Smith, 1944; Sanborn & Doty, 1946  
Coos Bay, Ore. to Carmel, Calif.
- ALARIA NANA Schrader  
Smith, 1944  
Vancouver Is., B. C. to Carmel, Calif.
- ALARIA PYLAII (Bory) Greville  
Setchell & Gardner, 1925  
Prince William Sound to Kodiak Is., Alaska
- ALARIA TENUIFOLIA Setchell  
Setchell & Gardner, 1925  
Bering Sea to Puget Sound, Wash.
- ALARIA TENUIFOLIA f. TYPICA Setchell  
Setchell & Gardner, 1925  
Unalaska, Alaska
- ALARIA TENUIFOLIA f. AMPLIOR Setchell & Gardner  
Setchell & Gardner, 1925  
Esquimault, B. C. to San Juan Is., Wash.
- ALARIA VALIDA Kjellman & Setchell  
Setchell & Gardner, 1925  
Unga, Alaska to Puget Sound, Wash.
- ALARIA VALIDA f. LONGIPES Setchell & Gardner  
Setchell & Gardner, 1925  
Whidbey Is., Wash.
- EISENIA ARBOREA Areschoug  
Setchell & Gardner, 1925  
Redondo, Calif. to Cabo San Lazaro, Baja Calif.

EISENIA ? DESMARESTIODES Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.

EISENIA ? MASONII Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.

EGREGIA LAEVIGATA Setchell  
Smith, 1944; Dawson, 1945E; 1946  
Monterey; Point Conception, Calif. to Cabo Colnett, Baja  
Calif.; Bahía Los Angeles, Gulf of Calif.

EGREGIA MENZIESII (Turner) Areschoug  
Smith, 1944  
Vancouver Is., B. C. to Point Conception, Calif.

## Order FUCALES

### Fam. **Fucaceae**

FUCUS EDENTATUS De la Pylaie  
Setchell & Gardner, 1925  
Sitka, Alaska to Coos Bay, Oregon

FUCUS EDENTATUS f. ACUTUS Gardner  
Setchell & Gardner, 1925  
Bellingham, Wash.

FUCUS EDENTATUS f. COSTATUS Gardner  
Setchell & Gardner, 1925  
Lower Puget Sound, Wash.

FUCUS EDENTATUS f. DIVARICATUS Gardner  
Setchell & Gardner, 1925  
Vancouver Is., B. C.; Bellingham, Wash.

FUCUS EDENTATUS f. DIVERGENS Gardner  
Setchell & Gardner, 1925  
Kanaka Bay, San Juan Co., Wash.

FUCUS EDENTATUS f. HESPERIUS Gardner  
Setchell & Gardner, 1925  
Cape Arago, Oregon

FUCUS EVANESCENS C. Agardh  
Setchell & Gardner, 1925  
Bering Sea to Coos Bay, Oregon

FUCUS EVANESCENS f. CORNUTUS Kjellman  
Setchell & Gardner, 1925  
Yakutat Bay, Alaska

- FUCUS EVANESCENS f. CUNEATUS Gardner  
Setchell & Gardner, 1925  
Coos Bay, Oregon
- FUCUS EVANESCENS f. DENDROIDES Stroemfelt  
Setchell & Gardner, 1925  
Agattu Is. to Sitka, Alaska
- FUCUS EVANESCENS f. ECOSTATUS Gardner  
Setchell & Gardner, 1925  
Coos Bay, Oregon
- FUCUS EVANESCENS f. FLABELLATUS Gardner  
Setchell & Gardner, 1925  
Bellingham, Wash.
- FUCUS EVANESCENS f. LONGIFRUCTUS Setchell & Gardner  
Setchell & Gardner, 1925  
Orca to Juneau, Alaska
- FUCUS EVANESCENS f. MACROCEPHALUS Kjellman  
Setchell & Gardner, 1925; Connell, 1928  
Bering Sea to Departure Bay, B. C.
- FUCUS EVANESCENS f. MAGNIFICUS Gardner  
Setchell & Gardner, 1925  
Juneau, Alaska to Puget Sound, Wash.
- FUCUS EVANESCENS f. MARGINATUS Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska
- FUCUS EVANESCENS f. NANUS Kjellman  
Setchell & Gardner, 1925  
Yakutat Bay, Alaska to Puget Sound, Wash.
- FUCUS EVANESCENS f. OREGONENSIS Gardner  
Setchell & Gardner, 1925  
Coos Bay, Oregon
- FUCUS EVANESCENS f. PERGRANDIS Kjellman  
Setchell & Gardner, 1925  
Unalaska, Alaska to Puget Sound, Wash.
- FUCUS EVANESCENS f. ROBUSTUS Setchell & Gardner  
Setchell & Gardner, 1925  
Bering Sea to Friday Harbor, Wash.
- FUCUS EVANESCENS f. RUDIS Kjellman  
Setchell & Gardner, 1925  
Bering Sea to Skagway, Alaska
- FUCUS EVANESCENS f. STELLATUS Gardner  
Setchell & Gardner, 1925  
Sackman's Point, Kitsap Co., Wash.



- FUCUS EVANESCENS f. TYPICUS Kjellman  
Setchell & Gardner, 1925  
Harvester and Kodiak Is., Alaska
- FUCUS FURCATUS C. Agardh  
Smith, 1944  
Sitka, Alaska to San Luis Obispo Co., Calif.
- FUCUS FURCATUS f. ABBREVIATUS Gardner  
Setchell & Gardner, 1925; Sanborn & Doty, 1946  
San Juan Co., Wash. to Coos Bay, Oregon
- FUCUS FURCATUS f. ANGUSTUS Gardner  
Setchell & Gardner, 1925  
San Juan Is., Wash. to central Oregon
- FUCUS FURCATUS f. CONTORTUS Gardner  
Setchell & Gardner, 1925  
Near Bellingham, Wash.
- FUCUS FURCATUS f. CORNUTUS Gardner  
Setchell & Gardner, 1925  
Yakutat Bay, Alaska to Victoria, B. C.
- FUCUS FURCATUS f. ELONGATUS Gardner  
Setchell & Gardner, 1925  
San Juan Is., Wash. to Coos Bay, Oregon
- FUCUS FURCATUS f. LATIFRONS Gardner  
Setchell & Gardner, 1925  
Ft. Ward, near Seattle, Wash.
- FUCUS FURCATUS f. LINEARIS Gardner  
Setchell & Gardner, 1925  
Tracyton, Wash.
- FUCUS FURCATUS f. LUXURIANS Gardner  
Setchell & Gardner, 1925; Smith, 1944; Sanborn & Doty,  
1945  
Coos Bay, Oregon to Oil Port, San Luis Obispo Co.,  
Calif.
- FUCUS FURCATUS f. NIGRICANS Gardner  
Setchell & Gardner, 1925  
Cattle Point, San Juan Is., Wash.
- FUCUS FURCATUS f. REFLEXUS Gardner  
Setchell & Gardner, 1925  
Pt. Defiance, Tacoma, Wash.
- FUCUS FURCATUS f. RIGIDUS Gardner  
Setchell and Gardner, 1925; Connell, 1928  
Horswell Channel, B. C. to Whidbey Is., Wash.

- FUCUS FURCATUS f. TYPICUS Gardner  
Setchell & Gardner, 1925  
Straits of Juan de Fuca to Fort Ross, Calif.
- FUCUS FURCATUS f. VARIABILIS Gardner  
Setchell & Gardner, 1925; Connell, 1928  
Sitka, Alaska; Campbell River, B. C.
- FUCUS MEMBRANACEUS Gardner  
Setchell & Gardner, 1925  
Bering Sea to Puget Sound, Wash.
- FUCUS MEMBRANACEUS f. ABBREVIATUS Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska
- FUCUS MEMBRANACEUS f. ACUMINATUS Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska
- FUCUS MEMBRANACEUS f. LATISSIMUS Gardner  
Setchell & Gardner, 1925  
Kodiak Is. to Sitka, Alaska
- FUCUS MEMBRANACEUS f. LIMITATUS Gardner  
Setchell & Gardner, 1925  
Pt. Defiance, Tacoma, Wash.
- FUCUS MEMBRANACEUS f. OBTUSUS Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska
- FUCUS MEMBRANACEUS f. TYPICUS Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska
- FUCUS NITENS Gardner  
Setchell & Gardner, 1925  
San Francisco Bay, Calif.
- FUCUS PARKSII Gardner  
Gardner, 1940  
Humbolt Bay; Eureka, Calif.
- PELVETIA FASTIGIATA (J. Agardh) DeToni  
Smith, 1944; Sanborn & Doty, 1946; Dawson, 1945E;  
Connell, 1928  
Horswell Channel, B. C.; Coos Bay, Oregon to Ensenada, Baja Calif.
- PELVETIA FASTIGIATA f. GRACILIS Setchell & Gardner  
Smith, 1944  
Monterey Peninsula; Santa Catalina Is., Calif.

PELVETIOPSIS ARBORESCENS Gardner  
Gardner, 1940  
Point Carmel, Calif.

PELVETIOPSIS LIMITATA (Setchell) Gardner  
Smith, 1944  
Vancouver Is., B. C. to Carmel, Calif.

PELVETIOPSIS LIMITATA f. LATA Gardner  
Smith, 1944  
Tomales Point to Monterey, Calif.

PELVETIOPSIS LIMITATA f. TYPICA Gardner  
Setchell & Gardner, 1925  
Vancouver Is., B. C. to central Calif.

HESPEROPHYCUS HARVEYANUS (Decaisne) Setchell & Gardner  
Smith, 1944; Dawson, 1945E  
Santa Cruz, Calif. to Ensenada, Baja Calif.

### Fam. Sargassaceae

BLOSSEVILLEA BRANDEGEEI Setchell & Gardner  
Setchell & Gardner, 1930; Dawson, 1945C  
La Jolla, Calif. to Is. Guadalupe, Baja Calif.

CYSTOPHYLLUM GEMINATUM (C. Agardh) J. Agardh  
Setchell & Gardner, 1925  
Bering Sea to Puget Sound, Wash.

HALIDRYS DIOICA Gardner  
Setchell & Gardner, 1925; Taylor, 1945; Dawson, 1945E  
Redondo, Calif. to Is. Cedros, Baja Calif.

CYSTOSEIRA NEGLECTA Setchell & Gardner  
Setchell & Gardner, 1925; Dawson, 1945C; 1945E  
Santa Catalina Is.; La Jolla, Calif.; Cabo Colnett, Baja  
Calif.

CYSTOSEIRA OSMUNDACEA (Menzies) C. Agardh  
Smith, 1944; Taylor, 1945; Dawson, 1945E  
Seaside, Oregon to Punta San Bartolomé, Baja Calif.

CYSTOSEIRA SETCHELLII Gardner  
Setchell & Gardner, 1925  
Redondo to San Diego, Calif.

SARGASSUM ACINACIFOLIUM Setchell & Gardner  
Dawson, 1944  
Puerto Libertad to Guaymas, Sonora

SARGASSUM AGARDHIANUM Farlow  
Setchell & Gardner, 1925; Dawson, 1945E  
Southern Calif. to Ensenada, Baja Calif.

- SARGASSUM ASYMMETRICUM Dawson  
Dawson, 1944  
Punta Peñasco, Sonora to Is. Tiburón, Gulf of Calif.
- SARGASSUM BRANDEGEEI Setchell & Gardner  
Dawson, 1944; Taylor, 1945  
Puerto Libertad to Guaymas, Sonora; Golfo Dulce, Costa Rica ?
- SARGASSUM CAMOUII Dawson  
Dawson, 1944  
Is. Tiburón, Gulf of Calif.
- SARGASSUM HERPORHIZUM Setchell & Gardner  
Dawson, 1944  
George Is.; Is. San Pedro Martir, Gulf of Calif.
- SARGASSUM HORRIDUM Setchell & Gardner  
Dawson, 1944  
Vicinity of La Paz, Baja Calif.
- SARGASSUM HOWELLII Setchell & Gardner  
Setchell, 1937; Taylor, 1945  
Is. Socorro; Is. Clarion, Revilla Gigedo Arch.
- SARGASSUM JOHNSTONII Setchell & Gardner  
Dawson, 1944  
Punta Peñasco, Sonora to Bahía Agua Verde, Baja Calif.
- SARGASSUM JOHNSTONII f. GRACILE Setchell & Gardner  
Dawson, 1944  
Punta Peñasco to Guaymas, Sonora
- SARGASSUM LAPAZEANUM Setchell & Gardner  
Dawson, 1944  
Guaymas, Sonora to La Paz, Baja Calif.
- SARGASSUM LIEBMANNI J. Agardh  
Taylor, 1945  
Is. María Magdalena, Nayarit to Bahía Honda, Panamá
- SARGASSUM MACDOUGALII Dawson  
Dawson, 1944  
Puerto Libertad; Guaymas, Sonora
- SARGASSUM PALMERI Grunow  
Setchell & Gardner, 1925; 1930  
Santa Cruz, Calif. to Is. Guadalupe, Baja Calif.
- SARGASSUM SINICOLA Setchell & Gardner  
Dawson, 1944  
Punta Peñasco, Sonora to La Paz, Baja Calif.; Is. Guadalupe, Baja Calif.



## RHODOPHYCEAE

(RED ALGAE)

## Order BANGIALES

Fam. **Goniotrichaceae**

GONIOTRICHUM CORNU-CERVI (Reinsch) Hauck  
Kylin, 1925  
Friday Harbor, Wash.

GONIOTRICHUM ELEGANS (Chauvin) Zanardini  
Smith, 1944; Dawson, 1944; *Goniotrichum Alsidii* in  
Taylor, 1945  
Friday Harbor, Wash. to Is. María Madre, Nayarit

GONIOTRICHOPSIS SUBLITTORALIS G. M. Smith  
Smith, 1944  
Monterey, Calif.

Fam. **Erythrotrichiaceae**

ERYTHROPELTIS DISCIGERA (Berthold) Schmitz  
Dawson, 1944  
Is. Tiburón, Gulf of Calif.

ERYTHROTRICHIA CALIFORNICA Kylin  
Smith, 1944; Dawson, 1944  
Monterey, Calif.; Is. Tiburón, Gulf of Calif.

ERYTHROTRICHIA CARNEA (Dillwyn) J. Agardh  
Smith, 1944; Dawson, 1944; 1945B  
Monterey; San Diego, Calif.; Gulf of Calif.

ERYTHROTRICHIA CERAMICOLA (Lyngbye) Areschoug  
Collins, 1913  
Uchuelet, Vancouver Is., B. C.

ERYTHROTRICHIA KYLINII Gardner  
Gardner, 1927  
Bering Sea to Puget Sound, Wash.

ERYTHROTRICHIA PARKSII Gardner  
Gardner, 1927  
Eureka, Calif.

ERYTHROTRICHIA PARKSII var. MINOR Gardner  
Gardner, 1927  
Neah Bay, Wash.

- ERYTHROTRICHIA POLYMORPHA Howe  
Setchell & Gardner, 1924  
Gulf of Calif.
- ERYTHROTRICHIA PORPHYROIDES Gardner  
Gardner, 1927  
San Francisco, Calif.
- ERYTHROTRICHIA PULVINATA Gardner  
Smith, 1944  
Monterey, Calif.
- ERYTHROTRICHIA TETRASERIATA Gardner  
Gardner, 1927  
San Pedro, Calif.
- ERYTHROTRICHIA WELWITSCHII (Ruprecht) Batters  
Smith, 1944  
Monterey, Calif.
- ERYTHROCLADIA IRREGULARIS Rosenvinge  
Smith, 1944; Dawson, 1944  
Friday Harbor, Wash.; Monterey, Calif.; Turner's Is.,  
Gulf of Calif.
- ERYTHROCLADIA SUBINTEGRA Rosenvinge  
Smith, 1944; Dawson, 1945E  
Friday Harbor, Wash.; Monterey, Calif.; Punta Des-  
canso, Baja Calif.

Fam. **Bangiaceae**

- BANGIA FUSCOPURPUREA (Dillwyn) Lyngbye  
Kylin, 1925; Taylor, 1945  
Orcas Is., Wash.; Port Parker, Costa Rica
- BANGIA MAXIMA Gardner  
Gardner, 1927  
Bollinas, Calif.
- BANGIA TENUIS Gardner  
Gardner, 1927  
Orcas Is., Wash.
- BANGIA VERMICULARIS Harvey  
Smith, 1944; Sanborn & Doty, 1946  
Coos Bay, Oregon to Carmel, Calif.
- PORPHYRA ABYSSICOLA Kjellman  
Kylin, 1925  
Friday Harbor, Wash.
- PORPHYRA AMPLISSIMA (Kjellman) Setchell & Hus  
Kylin, 1925; Setchell & Gardner, 1903  
Amaknak Is., Alaska to Friday Harbor, Wash.

- PORPHYRA LACINIATA (Lightfoot) C. Agardh  
Setchell & Gardner, 1903  
Amaknak Is. to Sitka, Alaska
- PORPHYRA LANCEOLATA (Setchell & Hus) G. M. Smith  
Smith, 1944  
Chehalis Bay, Wash. to Carmel, Calif.
- PORPHYRA MINIATA f. CUNEIFORMIS Setchell & Hus  
Smith, 1944  
Gulf of Alaska; Coupeville, Wash.; Monterey, Calif.
- PORPHYRA NAIADUM Anderson  
Smith, 1944; Taylor, 1945; Dawson, 1945E  
Vancouver Is., B. C. to Cabo San Lazaro, Baja Calif.  
Port Parker, Costa Rica
- PORPHYRA NEREOCYSTIS Anderson  
Smith, 1944  
Uyak Bay, Alaska to San Pedro, Calif.
- PORPHYRA OCCIDENTALIS Setchell & Hus  
Smith, 1944; Sanborn & Doty, 1946  
Coos Bay, Oregon; Carmel Bay, Calif.
- PORPHYRA PERFORATA J. Agardh  
Smith, 1944; Dawson, 1944; 1945E  
Shumagin Is., Alaska to Cabo Colnett, Baja Calif.; Bahía  
Agua Verde, Baja Calif.
- PORPHYRA PERFORATA f. SEGREGATA Setchell & Hus  
Kylin, 1925  
Washington to northern Calif.
- PORPHYRA PULCHRA Hollenberg  
Smith, 1944  
Santa Cruz to Monterey, Calif.
- PORPHYRA SCHIZOPHYLLA Hollenberg  
Smith, 1944  
Pescadero Point, Calif.
- PORPHYRA THURETII Setchell & Dawson  
Dawson, 1944; Smith, 1944  
Santa Cruz; Monterey, Calif.; Bahía San Felipe, Baja  
Calif.
- PORPHYRA TENUISSIMA (Stroemfelt) Setchell & Hus  
Setchell & Gardner, 1903  
Shumagin Is.; Yakutat Bay, Alaska
- PORPHYRA UMBILICALIS (Setchell & Gardner) Collins  
Collins, 1913; *Porphyra laciniata* f. *umbilicalis* in Setchell & Gardner, 1903  
Victoria, B. C. ?

## PORPHYRA VARIEGATA Kjellman

Smith, 1944

Puget Sound, Wash.; Monterey, Calif.

## PORPHYRELLA CALIFORNICA Hollenberg

Hollenberg, 1945

Lady's Harbor, Santa Cruz Is., Calif.; Southern Calif.

## PORPHYRELLA GARDNERI Smith &amp; Hollenberg

Smith, 1944; Hollenberg, 1945

Cape Arago, Oregon; Duxbury Reef to Monterey, Calif.

## PORPHYROPSIS COCCINEA (J. Agardh) Rosenvinge

Kylin, 1925

Friday Harbor, Wash.

## Order NEMALIONALES

## Fam. Acrochaetiaceae

## ACROCHAETIUM AMPHIROAE (Drew) Papenfuss

Papenfuss, 1945; Dawson, 1945E; *Rhodochorton Amphiroae* in Dawson, 1945B

Monterey, Calif. to Cabo Colnett, Baja Calif.

## ACROCHAETIUM ANGUSTUM (Drew) Papenfuss

Papenfuss, 1945

Santa Catalina Is., Calif.

## ACROCHAETIUM BORNETII Papenfuss

Papenfuss, 1945

San Pedro, Calif.

## ACROCHAETIUM COCCINEUM (Drew) Papenfuss

Papenfuss, 1945

Marin Co.; San Francisco, Calif.

## ACROCHAETIUM DAVIESII (Dillwyn) Nägeli

Papenfuss, 1945; Taylor, 1945

Carmel, Calif. to Is. Clarion, Revilla Gigedo Arch.

## ACROCHAETIUM DENSUM (Drew) Papenfuss

Papenfuss, 1945

San Francisco, Calif.

## ACROCHAETIUM DESMARESTIAE Kylin

Papenfuss, 1945

San Juan Co., Wash.

## ACROCHAETIUM DICTYOTAE Collins

Papenfuss, 1945

San Diego Co., Calif.



- ACROCHAETIUM EASTWOODAE (Setchell & Gardner) Papenfuss  
Papenfuss, 1945  
Is. Clarion, Revilla Gigedo Arch.
- ACROCHAETIUM ELEGANS (Drew) Papenfuss  
Papenfuss, 1945  
La Jolla, Calif.
- ACROCHAETIUM ERYTHROPHYLLUM Jao  
Jao, 1937  
Port Angeles, Wash.
- ACROCHAETIUM GYMNOGONGRI (Drew) Papenfuss  
Papenfuss, 1945  
San Francisco, Calif.
- ACROCHAETIUM HANCOCKII (Dawson) Papenfuss  
Papenfuss, 1945  
Is. Angel de la Guarda, Gulf of Calif.
- ACROCHAETIUM MACOUNII (Collins) Hamel  
Papenfuss, 1945  
Vancouver Is., B. C. to Carmel Bay, Calif.
- ACROCHAETIUM MAGNIFICUM (Drew) Papenfuss  
Papenfuss, 1945  
La Jolla, Calif.
- ACROCHAETIUM OBSCURUM (Drew) Papenfuss  
Papenfuss, 1945  
Marin Co. to Carmel, Calif.
- ACROCHAETIUM PACIFICUM Kylin  
Papenfuss, 1945  
San Juan Co., Wash.
- ACROCHAETIUM PENETRALE (Drew) Papenfuss  
Papenfuss, 1945; Taylor, 1945  
La Jolla, Calif.; Port Parker, Costa Rica
- ACROCHAETIUM PLUMOSUM (Drew) G. M. Smith  
Papenfuss, 1945; Dawson, 1945E  
Tomales Bay to Carmel, Calif.; Punta Descanso, Baja Calif.
- ACROCHAETIUM RHIZOIDEUM (Drew) G. M. Smith  
Papenfuss, 1945  
Washington to southern Calif.
- ACROCHAETIUM RHIZOIDEUM var. PATENS (Drew) G. M. Smith  
Smith, 1944  
Carmel, Calif.

ACROCHAETIUM SIMPLEX (Drew) Papenfuss  
Papenfuss, 1945  
Santa Monica, Calif.

ACROCHAETIUM SINICOLUM (Dawson) Papenfuss  
Papenfuss, 1945  
Turner's Is., Gulf of Calif.

ACROCHAETIUM SUBIMMERSUM (Setchell & Gardner) Papen-  
fuss  
Papenfuss, 1945  
Puget Sound, Wash. to Carmel, Calif.

ACROCHAETIUM TENUISSIMUM (Collins) Papenfuss  
Papenfuss, 1945  
San Pedro, Calif.

ACROCHAETIUM THURETII var. AGAMA (Rosenvinge) Dawson  
Dawson, 1945D  
San Pedro, Calif.

ACROCHAETIUM VAGUM (Drew) Jao  
Jao, 1937; Papenfuss, 1945  
Cape Flattery; San Juan Is., Wash.; Moss Beach, San  
Mateo Co., Calif.

ACROCHAETIUM VARIABILE (Drew) G. M. Smith  
Papenfuss, 1945  
San Juan Is., Wash. to San Pedro, Calif.

CHROMASTRUM ARCUATUM (Drew) Papenfuss  
Papenfuss, 1945; *Rhodochorton arcuatum* in Dawson,  
1944  
Cape Flattery, Wash. to Moss Beach, San Mateo Co.,  
Calif.; Turner's Is., Gulf of Calif.

CHROMASTRUM HIRSUTUM (Drew) Papenfuss  
Papenfuss, 1945  
Vancouver, B. C.

CHROMASTRUM IMPLICATUM (Drew) Papenfuss  
Papenfuss, 1945  
Moss Beach, San Mateo Co., Calif.

CHROMASTRUM MICROSCOPICUM (Nägeli) Papenfuss  
Papenfuss, 1945; *Rhodochorton microscopicum* in Daw-  
son, 1944  
La Jolla, Calif.; Turner's Is., Gulf of Calif.

CHROMASTRUM MONILIFORME (Rosenvinge) Papenfuss  
Papenfuss, 1945  
Vancouver Is., B. C.

CHROMASTRUM PORPHYRAE (Drew) Papenfuss  
Papenfuss, 1945  
San Francisco; Monterey, Calif.

RHODOCHORTON CONCRESCENS Drew  
Papenfuss, 1945  
Carmel Bay, Calif.

RHODOCHORTON PENICILLIFORME (Kjellman) Rosenvinge  
Papenfuss, 1945  
Spruce Is., Alaska to San Juan Co., Wash.

RHODOCHORTON PURPUREUM (Lightfoot) Rosenvinge  
Papenfuss, 1945  
Bering Sea to San Diego, Calif.

RHODOCHORTON TENUE Kylin  
Papenfuss, 1945  
San Juan Is., Wash.; Santa Cruz, Calif.

AUDOUINELLA MEMBRANACEUM (Magnus) Papenfuss  
Papenfuss, 1945  
San Juan Co., Wash.

CONCHOCELIS ROSEA Batters  
Jao, 1937  
Puget Sound, Wash.

### Fam. **Helminthocladiaceae**

NEMALION ELMINTHOIDES (Volley) Batters  
Dawson, 1945B; *Nemalion lubricum* in Smith, 1944  
Sitka, Alaska to San Diego, Calif.

NEMALION VIRENS J. Agardh  
Agardh, 1852  
Pacific coast of México, probably Oaxaca

HELMINTHORA SAUNDERSII Gardner  
Smith, 1944  
Monterey, Calif.

HELMINTHORA STRICTA Gardner  
Gardner, 1926  
La Jolla, Calif.

HELMINTHOCLADIA CALIFORNICA (J. Agardh) Kylin  
Kylin, 1941  
Santa Barbara to San Diego, Calif.

HELMINTHOCLADIA GRACILIS Gardner  
Gardner, 1926  
Santa Barbara, Calif.

CUMAGLOIA ANDERSONII (Farlow) Setchell & Gardner  
Smith, 1944; Dawson, 1945E  
Vancouver Is., B. C. to San Diego, Calif.; Cabo Colnett,  
Baja Calif.

LIAGORA CALIFORNICA Zeh  
Zeh, 1912; Dawson, 1945D  
Santa Catalina Is., Calif. to Is. Guadalupe, Baja Calif.

LIAGORA CERANOIDES Lamouroux  
Taylor, 1945  
Golfo Dulce, Costa Rica

LIAGORA VALIDA Harvey  
Taylor, 1945  
Golfo Dulce, Costa Rica

### Fam. **Chaetangiaceae**

GLOIOPHLOEA CONFUSA Setchell  
Smith, 1944  
Vancouver Is., B. C. to San Diego, Calif.

SCINAIA ARTICULATA Setchell  
Setchell, 1914A  
Santa Barbara, Calif.

SCINAIA COMPLANATA (Collins) Cotton  
Taylor, 1945  
Is. María Magdalena, Nayarit; Puerto Culebra, Costa  
Rica

SCINAIA JOHNSTONIAE Setchell  
Dawson, 1944; Taylor, 1945  
Southern Calif. to Puerto Culebra, Costa Rica; Gulf of  
Calif.

SCINAIA LATIFRONS Howe  
Dawson, 1944; Taylor, 1945  
Southern Calif. to Is. María Magdalena, Nayarit; Gulf  
of Calif.

SCINAIA MINIMA Dawson  
Dawson, 1945A  
Is. Cedros, Baja Calif.

PSEUDOSCINAIA SNYDERAE Setchell  
Setchell, 1914A; Dawson, 1945B  
San Pedro to San Diego, Calif.

WHIDBEYELLA CARTILAGINEA Setchell & Gardner  
Kylin, 1925  
Whidbey Is., Wash.



*GALAXAURA FASTIGIATA* Decaisne

Dawson, 1944

Punta Peñasco, Sonora; Is. Tiburón, Gulf of Calif.

*GALAXAURA FILAMENTOSA* Chou

Taylor, 1945

Is. Clarion, Revilla Gigedo Arch.; Puerto Culebra, Costa Rica

*GALAXAURA MARGINATA* (Solander) Kjellman

Dawson, 1944

San Jose del Cabo, Baja Calif.

*GALAXAURA OBLONGATA* (Ellis & Solander) Lamouroux

Taylor, 1945

Is. María Madre, Nayarit

*GALAXAURA RAMULOSA* Kjellman

Taylor, 1945

Is. Jacarita, Panamá

*GALAXAURA SQUALIDA* Kjellman

Taylor, 1945

Bahía Honda, Panamá

*GALAXAURA STUPOCAULON* Kjellman

Taylor, 1945

Golfo Dulce, Costa Rica

*GALAXAURA SUBFRUTICULOSA* Chou

Taylor, 1945

Is. Clarion, Revilla Gigedo Arch.

*GALAXAURA VENTRICOSA* Kjellman

Taylor, 1945

Is. María Magdalena, Nayarit

*GALAXAURA VEPRECUA* Kjellman

Taylor, 1945

Golfo Dulce, Costa Rica

**Fam. Bonnemaisoniaceae***BONNEMAISONIA CALIFORNICA* Buffham

Smith, 1944

Vancouver Is., B. C. to Ventura, Calif.

*BONNEMAISONIA GENICULATA* Gardner

Smith, 1944

Carmel Bay to Point Sur, Calif.

BONNEMAISONIA HAMIFERA Hariot  
Feldman, 1942; *Asparagopsis hamifera* in Kylin, 1925;  
1941; Dawson, 1945E  
Victoria, B. C. to Punta Descanso, Baja Calif.

ASPARAGOPSIS SANFORDIANA Harvey  
Setchell & Gardner, 1930; Dawson, 1944; Taylor, 1945;  
see *Asparagopsis taxiformis* in Feldmann, 1942  
Is. Angel de la Guarda, Gulf of Calif. to Is. Clarion,  
Revilla Ggedo Arch.

ASPARAGOPSIS SANFORDIANA f. AMPLISSIMA Setchell & Gardner  
Setchell & Gardner, 1924; Taylor, 1945  
La Paz, Baja Calif.; Revilla Ggedo Arch.

## Order GELIDIALES

### Fam. Gelidiaceae

GELIDIUM ARBORESCENS Gardner  
Smith, 1944  
Monterey to Cambria, Calif.

GELIDIUM CALOGLOSSOIDES Howe  
Smith, 1944  
Monterey to southern Calif.

GELIDIUM CARTILAGINEUM (Linnaeus) Greville  
Kylin, 1925; Dawson, 1945E  
San Juan Is., Wash. and southward

GELIDIUM CARTILAGINEUM var. ROBUSTUM Gardner  
Smith, 1944; Taylor, 1945  
San Francisco, Calif. to Puerto San Bartholomé, Baja  
Calif.

GELIDIUM COULTERI Harvey  
Smith, 1944; Sanborn & Doty, 1946; Dawson, 1945E  
Coos Bay, Oregon to Punta Descanso, Baja Calif.

GELIDIUM CRINALE (Turner) Lamouroux  
Dawson, 1944; 1945B; Collins, 1913  
Victoria, B. C. to La Jolla, Calif.; Bahía Gonzaga, Baja  
Calif. to Turner's Is., Gulf of Calif.

GELIDIUM CRINALE var. LUXURIANS Collins  
Gardner, 1927E  
Southern Calif.

GELIDIUM DECOMPOSITUM Setchell & Gardner  
Dawson, 1944  
Bahía San Francisquito, Baja Calif.

- GELIDIUM DENSUM** Gardner  
Gardner, 1927E; Taylor, 1945  
San Pedro, Calif.; Is. Cedros, Baja Calif.
- GELIDIUM JOHNSTONII** Setchell & Gardner  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif. to Guaymas, Sonora
- GELIDIUM MICROPHYSA** Setchell & Gardner  
Setchell & Gardner, 1930; Dawson, 1944  
Is. Guadalupe, Baja Calif.; Turner's Is., Gulf of Calif.
- GELIDIUM NUDIFRONS** Gardner  
Gardner, 1927E  
Southern Calif.
- GELIDIUM POLYSTICHUM** Gardner  
Gardner, 1927E  
White's Point, San Pedro, Calif.
- GELIDIUM PULCHRUM** Gardner  
Kylin, 1941; Sanborn & Doty, 1946; Dawson, 1945E  
Coos Bay, Oregon; Orange County, Calif. to Cabo Colnett, Baja Calif.
- GELIDIUM PURPURASCENS** Gardner  
Smith, 1944  
Bolas to San Diego, Calif.
- GELIDIUM PUSILLUM** (Stackhouse) Le Jolis  
Smith, 1944; Dawson, 1944; Taylor, 1945  
Monterey, Calif. to Panamá
- GELIDIUM RAMULIFERUM** Gardner  
Gardner, 1927E  
San Pedro, Calif.
- GELIDIUM SCLEROPHYLLUM** Taylor  
Taylor, 1945  
Golfo Dulce, Costa Rica
- GELIDIUM SETCHELLII** Gardner  
Gardner, 1927E  
Marin Co., Calif.
- GELIDIUM SINICOLA** Gardner  
Smith, 1944  
San Francisco Bay; Monterey, Calif.
- PTEROCLADIA MEXICANA** Taylor  
Taylor, 1945  
Cabo San Lazaro, Baja Calif.

- PTEROCLADIA MUSCIFORMIS* Taylor  
Taylor, 1945  
Golfo Dulce, Costa Rica
- PTEROCLADIA OKAMURAI* (Setchell & Gardner) Taylor  
Taylor, 1945  
Is. Clarion, Revilla Gigedo Arch.
- PTEROCLADIA PYRAMIDALE* (Gardner) Dawson  
Dawson, 1945D; 1945E  
Southern Calif.; Punta Descanso, Baja Calif.
- GELIDIOCOLAX MICROSPHAERICA* Gardner  
Gardner, 1927A  
Balboa, Calif.
- GELIDIELLA ACEROSA* (Forsskål) Feldmann & Hamel  
Dawson, 1944  
Southern Gulf of Calif. to Central America
- GELIDIELLA HANCOCKII* Dawson  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif.; Kino, Sonora
- GELIDIELLA MEXICANA* Dawson  
Dawson, 1944  
Bahía Gonzaga, Baja Calif. to Guaymas, Sonora
- GELIDIELLA* ? *REFUGIENSIS* Dawson  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif.
- WURDEMANNIA MINIATA* (Draparnaud) Feldmann & Hamel  
Dawson, 1944; Taylor, 1945  
Is. Carmen, Gulf of Calif. to Panama City, Panamá
- GELIDIOPSIS TENUIS* Setchell & Gardner  
Dawson, 1944  
Guaymas, Sonora to San Jose del Cabo, Baja Calif.; Is.  
Clarion, Revilla Gigedo Arch.
- GELIDIOPSIS VARIABILIS* (Greville) Schmitz  
Dawson, 1944  
Guaymas, Sonora

## Order **CRYPTONEMIALES**

### Fam. **Dumontiaceae**

- CRYPTOSIPHONIA WOODII* J. Agardh  
Smith, 1944  
Unalaska, Alaska to Venice, Calif.



- THURETELLOPSIS Peggiana Kylin  
Kylin, 1925  
Friday Harbor, Wash.
- DUMONTIA FILIFORMIS (Lyngbye) J. Agardh  
Setchell & Gardner, 1903  
Alaska
- BAYLESIA PLUMOSA Setchell  
Smith, 1944  
Santa Cruz; Monterey, Calif.
- SARCOPHYLLIS ARCTICA Kjellman  
Setchell & Gardner, 1903  
Alaska
- PIKEA CALIFORNICA Harvey  
Smith, 1944  
Vancouver Is., B. C. to La Jolla, Calif.
- PIKEA PINNATA Setchell  
Smith, 1944; Dawson, 1945D  
Bolinás to Coronado, Calif.
- FARLOWIA COMPRESSA J. Agardh  
Smith, 1944  
Tomaes Bay to Carmel Bay, Calif.
- FARLOWIA CRASSA J. Agardh  
Smith, 1944  
Port Orford, Oregon to San Diego, Calif.
- FARLOWIA MOLLIS (Harvey & Bailey) Farlow & Setchell  
Smith, 1944  
Vancouver, B. C. to Carmel, Calif.
- DILSEA CALIFORNICA (J. Agardh) Schmitz  
Kylin, 1941; Sanborn & Doty, 1946  
Coos Bay, Oregon to San Francisco, Calif.
- LEPTOCLADIA BINGHAMIAE J. Agardh  
Setchell, 1912; Kylin, 1941; Dawson, 1945E  
Santa Cruz, Calif. to Cabo Colnett, Baja Calif.
- LEPTOCLADIA CONFERTA Setchell  
Smith, 1944  
Crescent City to Carmel Bay, Calif.
- LEPTOCLADIA LAXA Taylor  
Taylor, 1945  
Cabo San Lazaro, Baja Calif.
- WEEKSIA FRYEANA Setchell  
Kylin, 1925  
San Juan Co., Wash.

WEEKSIA HOWELLII Setchell & Gardner  
Setchell & Gardner, 1937  
Is. Natividad, Baja Calif.

WEEKSIA RETICULATA Setchell  
Smith, 1944; Dawson, 1945E  
Monterey Peninsula, Calif.; Cabo Colnett, Baja Calif.

WEEKSIA TEMPLETONII Setchell & Gardner  
Setchell & Gardner, 1937  
Is. Cedros, Baja Calif.

CONSTANTINEA ROSA MARINA (Gmelin) Postels & Ruprecht  
Setchell & Gardner, 1903; Setchell, 1906  
Western Aleutian Is. to Sitka, Alaska

CONSTANTINEA SIMPLEX Setchell  
Smith, 1944  
Neah Bay, Wash. to Carmel, Calif.

CONSTANTINEA SUBULIFERA Setchell  
Setchell, 1906; Kylin, 1925  
Esquimalt, B. C. to San Juan Is., Wash.

### Fam. **Gloiosiphoniaceae**

GLOIOPELTIS FURCATA (Postels & Ruprecht) J. Agardh  
Setchell & Gardner, 1903; Kylin, 1925  
Aleutian Islands, Alaska to Puget Sound, Wash.

GLOIOPELTIS MINIATA Kylin  
Kylin, 1941  
Santa Catalina Is., Calif.

GLOIOSIPHONIA CALIFORNICA (Farlow) J. Agardh  
Smith, 1944  
Sitka, Alaska to Carmel Bay, Calif.

GLOIOSIPHONIA CAPILLARIS (Hudson) Carmichael  
Collins, 1913  
Vancouver Is., B. C.

GLOIOSIPHONIA VERTICILLARIS Farlow  
Smith, 1944  
Sitka, Alaska to Carmel Bay, Calif.

### Fam. **Endocladiaaceae**

ENDOCLADIA MURICATA (Postels & Ruprecht) J. Agardh  
Smith, 1944  
Shumagin Is., Alaska to La Jolla, Calif.

**Fam. Squamariaceae**

PEYSSONNELIA CALCEA Heydrich

Taylor, 1945

Is. Socorro, Revilla Gigedo Arch.

PEYSSONNELIA CLARIONENSIS Taylor

Taylor, 1945

Is. Clarion, Revilla Gigedo Arch.

PEYSSONNELIA PACIFICA Kylin

Smith, 1944; Dawson, 1945A

San Juan Is., Wash. to Is. Cedros, Baja Calif.

PEYSSONNELIA RUBRA (Greville) J. Agardh

Setchell & Gardner, 1930; Taylor, 1945

Is. Guadalupe, Baja Calif. ?; Is. Clarion; Is. Socorro,  
Revilla Gigedo Arch.

RHODODERMIS ELEGANS Crouan

Smith, 1944

Marin Co. to Monterey, Calif.

ASYMMETRIA EXPANSA Setchell & Gardner

Smith, 1944

Monterey, Calif.

HILDENBRANDIA OCCIDENTALIS Setchell

Smith, 1944

Puget Sound, Wash. to Carmel Bay, Calif.

HILDENBRANDIA PROTOTYPUS Nardo

Smith, 1944; Taylor, 1945

Alaska to Panamá

HILDENBRANDIA ROSEA Kützing

Kylin, 1925; Dawson, 1944

San Juan Co., Wash.; Turner's Is., Gulf of Calif.

CRUORIELLA DUBYI Crouan

Taylor, 1945

Is. Isabel, Nayarit; Is. Socorro; Is. Clarion, Revilla  
Gigedo Arch.

**Fam. Cruoriaceae**

PETROCELIS FRANCISCANA Setchell & Gardner

Smith, 1944

Puget Sound, Wash. to San Luis Obispo Co., Calif.

PETROCELIS HAEMATIS Hollenberg  
Hollenberg, 1943  
Southern Calif.

PETROCELIS MIDDENDORFFII (Ruprecht) Kjellman  
Kylin, 1925  
Bering Sea to Whidbey Is., Wash.

### Fam. Corallinaceae

CHOREONEMA THURETI (Bornet) Schmitz  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.

MELOBESIA MARGINATA Setchell & Foslie  
Smith, 1944; Taylor, 1945  
Whidbey Is., Wash. to Is. Cedros, Baja Calif.

MELOBESIA MEDIOCRIS (Foslie) Setchell & Mason  
Smith, 1944; Taylor, 1945  
Fort Bragg, Calif. to Cabo San Lazaro, Baja Calif.

ARCHEOLITHOTHAMNIUM HOWEI Lemoine  
Lemoine, 1929  
Is. Coiba, Panamá

LITHOTHAMNIUM ACULEIFERUM Mason  
Setchell & Mason, 1943  
Pacific Grove to La Jolla, Calif.

LITHOTHAMNIUM AUSTRALE f. AMERICANA Foslie  
Dawson, 1944; Taylor, 1945  
Is. Angel de la Guarda, Gulf of Calif. to Bahía Honda,  
Panamá

LITHOTHAMNIUM AUSTRALE f. MINUTULA Foslie  
*Mesophyllum australe* var. *minutula* in Lemoine, 1929  
Is. Coiba, Panamá

LITHOTHAMNIUM AUSTRALE f. TUALENSIS Foslie  
Dawson, 1944; Taylor, 1945; *Mesophyllum australe* var.  
*tualensis* in Lemoine, 1929  
Is. Angel de la Guarda, Gulf of Calif. to Bahía Honda,  
Panamá

LITHOTHAMNIUM CALIFORNICUM Foslie  
Smith, 1944  
San Juan Is., Wash. to San Diego, Calif.

LITHOTHAMNIUM CONCHATUM Setchell & Foslie  
Smith, 1944  
San Juan Is., Wash. to Carmel, Calif.



- LITHOTHAMNIUM CRASSIUSCULUM (Foslie) Mason  
Setchell & Mason, 1943  
San Pedro to La Jolla, Calif.
- LITHOTHAMNIUM GIGANTEUM Mason  
Setchell & Mason, 1943  
La Jolla, Calif.
- LITHOTHAMNIUM INDICUM Foslie  
Taylor, 1945  
Is. Socorro; Is. Clarion, Revilla Gigedo Arch.; Is. Secas,  
Panamá
- LITHOTHAMNIUM LAMELLATUM Setchell & Foslie  
Smith, 1944  
Monterey, Calif.
- LITHOTHAMNIUM MONTEREYICUM Foslie  
Smith, 1944  
Monterey, Calif.
- LITHOTHAMNIUM MURICATUM (Foslie) G. DeToni  
G. DeToni, 1924; *Lithophyllum muricatum* in Foslie,  
1929  
Vancouver Is., B. C.
- LITHOTHAMNIUM PACIFICUM Foslie  
Smith, 1944  
Whidbey Is., Wash. to Carmel, Calif.
- LITHOTHAMNIUM PARCUM Setchell & Foslie  
Smith, 1944  
San Juan Is., Wash. to Carmel, Calif.
- LITHOTHAMNIUM PHYMATODEUM Foslie  
Foslie, 1929  
Puget Sound, Wash. to Bolinas, Calif.
- LITHOTHAMNIUM RECLINATUM Foslie  
Foslie, 1929; Collins, 1913  
Vancouver Is., B. C. to Tomales Bay, Calif.
- LITHOTHAMNIUM VALIDUM Foslie  
Taylor, 1945  
Bahía Petatlán, Guerrero; Puerto Culebra, Costa Rica
- CLATHROMORPHUM COMPACTUM f. CIRCUMSCRIPTUM Ström-  
felt) Foslie  
Foslie, 1929  
Unalaska, Alaska
- HYDROLITHON SETCHELLII (Foslie) Setchell & Mason  
Setchell & Mason, 1943  
Redondo to La Jolla, Calif.

- FOSLIELLA ASCRIPTICIA (Foslie) G. M. Smith  
Smith, 1944  
Monterey to La Jolla, Calif.
- FOSLIELLA DISPAR (Foslie) G. M. Smith  
Smith, 1944  
Whidbey Is., Wash.; Bolinas; Monterey, Calif.
- FOSLIELLA INTERMEDIA (Foslie) G. M. Smith  
Smith, 1944  
Pacific Grove to La Jolla, Calif.
- FOSLIELLA MINUTA Taylor  
Taylor, 1945  
Bahía Honda, Panamá
- FOSLIELLA NICHOLSII (Setchell & Mason) G. M. Smith  
Smith, 1944  
Monterey to San Diego, Calif.
- FOSLIELLA PASCHALIS (Lemoine) Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.
- LITHOLEPIS ACCOLA Foslie  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.; Is. Clarion, Revilla Gigedo Arch.
- LITHOLEPIS FERTILIS (Lemoine) Setchell & Mason  
Setchell & Mason, 1943  
Is. Coiba, Panamá
- LITHOLEPIS SONORENSIS Dawson  
Dawson, 1944  
Is. Espiritu Santo, Gulf of Calif.
- LITHOPORELLA PACIFICA (Heydrich) Foslie  
Setchell & Gardner, 1930  
Is. Clarion, Revilla Gigedo Arch.
- HETERODERMA CORALLINICOLA Dawson  
Dawson, 1944  
Guaymas, Sonora
- HETERODERMA GIBBSII (Foslie & Setchell) Foslie  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif. to San Jose del Cabo, Baja Calif.
- DERMATOLITHON SAXICOLUM (Lemoine) Setchell & Mason  
Setchell & Mason, 1943  
Is. Cocos, Costa Rica

- DERMATOLITHON VELEROAE Dawson  
Dawson, 1944  
Bahía Agua Verde, Baja Calif.
- POROLITHON COCOSICUM Lemoine  
Lemoine, 1929  
Is. Cocos, Costa Rica
- POROLITHON SONORENSIS Dawson  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif. to Guaymas,  
Sonora
- LITHOPHYLLUM BRACCHIATUM (Heydrich) Lemoine  
Taylor, 1945; Lemoine, 1929  
Is. María Magdalena, Nayarit; Is. Socorro; Is. Clarion,  
Revilla Gigedo Arch.; Is. Secas; Is. Coiba, Panamá
- LITHOPHYLLUM (?) COIBENSE Lemoine  
Lemoine, 1929  
Is. Coiba, Panamá
- LITHOPHYLLUM DECIPIENS Foslíe  
Dawson, 1944; Foslíe, 1929  
Bodega Bay to San Diego, Calif.; Is. Angel de la Guarda,  
Gulf of Calif. to Guaymas, Sonora
- LITHOPHYLLUM DIGUETI (Hariot) Heydrich  
Dawson, 1944  
Is. Angel de la Guarda; Is. Espíritu Santo, Gulf of Calif.
- LITHOPHYLLUM DIVARICATUM Lemoine  
Taylor, 1945  
Is. Socorro, Revilla Gigedo Arch.; Bahía Petatlán, Guer-  
rero; Is. Jicarita, Panamá
- LITHOPHYLLUM (?) FETUM Foslíe  
Lemoine, 1929  
Is. Cocos, Costa Rica
- LITHOPHYLLUM GRUMOSUM Foslíe  
Smith, 1944  
Pacific Grove to San Diego, Calif.
- LITHOPHYLLUM HANCOCKII Dawson  
Dawson, 1944  
Is. Espíritu Santo, Gulf of Calif.
- LITHOPHYLLUM IMITANS Foslíe  
Foslíe, 1929  
Southern Calif.
- LITHOPHYLLUM LITHOPHYLLOIDES Heydrich  
Dawson, 1944  
Is. Angel de la Guarda to Is. Espíritu Santo, Gulf of  
Calif.

- LITHOPHYLLUM (?) LIVIDUM Lemoine  
Lemoine, 1929  
Is. Cocos, Costa Rica
- LITHOPHYLLUM MARGARITAE (Hariot) Heydrich  
Dawson, 1944; *Lithophyllum elegans* in Setchell & Ma-  
son, 1943  
La Paz, Baja Calif.
- LITHOPHYLLUM NEOFARLOWII Setchell & Mason  
Smith, 1944  
Fort Bragg to Carmel Bay, Calif.
- LITHOPHYLLUM PALLESCENS (Foslie) Heydrich  
Dawson, 1944  
Is. Espiritu Santo, Gulf of Calif.
- LITHOPHYLLUM PROBOSCIDIUM Foslie  
Smith, 1944  
Monterey; San Pedro, Calif.
- LITHOPHYLLUM (?) PROPINQUUM var. COCOSICA Lemoine  
Lemoine, 1929  
Is. Cocos, Costa Rica
- LITHOPHYLLUM TRICHOTOMUM (Heydrich) Lemoine  
Dawson, 1944; Taylor, 1945; *Neogoniolithon trichoto-*  
*mum* in Setchell & Mason, 1943A  
Is. Angel de la Guarda, Gulf of Calif. to Is. Clarion,  
Revilla Gigedo Arch.
- LITHOPHYLLUM VELEROAE Dawson  
Dawson, 1944  
Is. Espiritu Santo, Gulf of Calif.
- LITHOPHYLLUM WHIDBEYENSE Foslie  
Setchell & Mason, 1943  
Vancouver Is., B. C.; Puget Sound, Wash.
- CORALLINA CHILENSIS Decaisne  
Smith, 1944; Taylor, 1945; Dawson, 1945E  
Vancouver Is., B. C. to Cabo San Lazaro, Baja Calif.
- CORALLINA CUBENSIS (Montagne) Kützing  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.
- CORALLINA GRACILIS Lamouroux  
Dawson, 1945B; Taylor, 1945  
Southern Calif. to Is. Cedros, Baja Calif.
- CORALLINA GRACILIS var. Densa Collins  
Smith, 1944; Dawson, 1945B; 1945E  
Marin Co., Calif. to Cabo Colnett, Baja Calif.



- CORALLINA GRACILIS var. LYCOPODIOIDES Taylor  
Taylor, 1945  
Is. Cedros, Baja Calif.
- CORALLINA PILULIFERA Postels & Ruprecht  
Dawson, 1944; *Corallina officinalis* f. *pilulifera* in Setchell & Gardner, 1903  
Alaska; Gulf of Calif. ?
- CORALLINA SUBULATA Solander  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif. ?
- CORALLINA VANCOUVERIENSIS Yendo  
Yendo, 1902; Taylor, 1945  
Port Renfrew, Vancouver Is., B. C.; Cabo San Lazaro, Baja Calif.
- PACHYARTHON CRETACEUM (Postels & Ruprecht) Manza  
Manza, 1940  
Unalaska, Alaska
- LITHOTHRIX ASPERGILLUM J. E. Gray  
Smith 1944; Taylor, 1945; Dawson, 1945E  
Vancouver Is., B. C. to Is. Cedros, Baja Calif.
- JOCULATOR PINNATIFOLIUS Manza  
Manza, 1940  
Orange and San Diego Counties, Calif.
- BOSSEA ANGUSTATA Taylor  
Taylor, 1945  
Is. San Benito, Baja Calif.
- BOSSEA CALIFORNICA (Decaisne) Manza  
Smith, 1944  
Monterey, Calif.
- BOSSEA CORYMBIFERA Manza  
Smith, 1944  
Point Lobos, Carmel Bay, Calif.
- BOSSEA DICHOTOMA Manza  
Smith, 1944  
Moss Beach, San Mateo Co.; Monterey Peninsula, Calif.
- BOSSEA FRONDIFERA Manza  
Manza, 1940; Dawson, 1945E  
Moss Beach, San Mateo Co., Calif.; Punta Descanso, Baja Calif.
- BOSSEA GARDNERI Manza  
Smith, 1944; Taylor, 1945  
Duxbury Reef, Marin Co., Calif. to Is. Cedros, Baja Calif.

*BOSSEA INTERRUPTA* Manza

Smith, 1944  
Pacific Grove, Calif.

*BOSSEA ORBIGNIANA* (Decaisne) Manza

Smith, 1944; Dawson, 1945E  
Cape Arago, Oregon; Monterey, Calif. to Cabo Colnett,  
Baja Calif.

*BOSSEA PACHYCLADA* Taylor

Taylor, 1945  
Is. Cedros, Baja Calif.

*BOSSEA PLUMOSA* Manza

Smith, 1944  
Moss Beach, San Mateo Co.; Monterey Peninsula, Calif.

*JANIA ADHAERENS* Lamouroux

Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.

*JANIA CAPILLACEA* Harvey

Taylor, 1939; 1945  
Is. Socorro, Revilla Gigedo Arch.; Clipperton Is.

*JANIA MEXICANA* Taylor

Taylor, 1945  
Bahía Tangola-Tangola, Oaxaca; Bahía Petatlán, Guerrero

*JANIA RUBENS* Lamouroux

Setchell & Gardner, 1930; Dawson, 1944  
Is. Guadalupe, Baja Calif.; Pond Is., Gulf of Calif. to  
Guaymas, Sonora

*AMPHIROA ANNULATA* Lemoine

Taylor, 1945  
Is. Socorro, Revilla Gigedo Arch.; Golfo Dulce, Costa  
Rica

*AMPHIROA COMPRESSA* var. *TENUIS* Taylor

Taylor, 1945  
Is. María Magdalena, Nayarit

*AMPHIROA CROSSLANDII* Lemoine

Taylor, 1945; Lemoine, 1929  
Is. Socorro, Revilla Gigedo Arch.; Tangola-Tangola,  
Oaxaca; Is. Gorgona, Gulf of Panamá

*AMPHIROA DIMORPHA* Lemoine

Taylor, 1945  
Is. Isabel, Nayarit

- AMPHIROA FOLIACEA Lamouroux  
Taylor, 1945  
Is. María Magdalena, Nayarit
- AMPHIROA FRAGILISSIMA (Linnaeus) Lamouroux  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.
- AMPHIROA FRANCISCANA Taylor  
Taylor, 1945  
Is. María Magdalena, Nayarit
- AMPHIROA MEXICANA Taylor  
Taylor, 1945  
Morro de Petatlán, Guerrero
- AMPHIROA MINUTISSIMA Taylor  
Taylor, 1945  
Golfo Dulce, Costa Rica
- AMPHIROA PENINSULARIS Taylor  
Taylor, 1945  
San Diego, Calif.; Is. Cedros, Baja Calif.; Is. María  
Magdalena, Nayarit; Bahía Petatlán, Guerrero
- AMPHIROA POLYMORPHA Lemoine  
Taylor, 1945  
Golfo Dulce, Costa Rica
- AMPHIROA PUSILLA Yendo  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif. to Guaymas,  
Sonora
- AMPHIROA RIGIDA Lamouroux  
Dawson, 1944  
Bahía Tepoca to Guaymas, Sonora
- AMPHIROA ZONATA Yendo  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif. to Guaymas,  
Sonora
- CALLIARTHRON CHEILOSPORIOIDES Manza  
Smith, 1944  
Bolas to San Pedro, Calif.
- CALLIARTHRON PINNULATUM Manza  
Manza, 1940  
Puget Sound, Wash.; ?; Moss Beach, San Mateo Co.,  
Calif.
- CALLIARTHRON REGENERANS Manza  
Manza, 1940  
Moss Beach, San Mateo Co., Calif.

*CALLIARTHRON SETCHELLIAE* Manza  
Smith, 1944  
Moss Beach, San Mateo Co.; Monterey, Calif.

*CALLIARTHRON SCHMITTII* Manza  
Manza, 1940  
San Diego, Calif.

**Fam. Dermocorynidae**

*DERMOCORYNUS OCCIDENTALIS* Hollenberg  
Hollenberg, 1940  
Los Angeles Co., Calif. to Punta Banda, Baja Calif.

**Fam. Grateloupiidae**

*GRATELOUPIA ABREVIATA* Kylin  
Kylin, 1941  
La Jolla, Calif.

*GRATELOUPIA ACROIDALEA* Setchell & Gardner  
Dawson, 1944  
Guaymas, Sonora

*GRATELOUPIA CALIFORNICA* Kylin  
Smith, 1944; Dawson, 1945E  
Puget Sound, Wash. to Cabo Colnett, Baja Calif.

*GRATELOUPIA CERROSIANA* Taylor  
Taylor, 1945  
Is. Cedros, Baja Calif.

*GRATELOUPIA FILICINA* (Wulfen) C. Agardh  
Taylor, 1945; Dawson, 1945E  
Punta Descanso; Cabo Colnett, Baja Calif.; Bahía Petatlán, Guerrero

*GRATELOUPIA* (?) *HANCOCKII* Dawson  
Dawson, 1944  
Kino, Sonora

*GRATELOUPIA HOWEII* Setchell & Gardner  
Dawson, 1944  
Is. San Esteban, Gulf of Calif.

*GRATELOUPIA JOHNSTONII* Setchell & Gardner  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif.



- GRATELOUPIA MAXIMA (Gardner) Kylin  
Kylin, 1941  
San Francisco; La Jolla, Calif.
- GRATELOUPIA PINNATA (Postels & Ruprecht) Setchell  
Kylin, 1925  
Sitka, Alaska to Tracyton, Wash.
- GRATELOUPIA PROLONGATA J. Agardh  
Dawson, 1944; 1945C; 1945E  
La Jolla, Calif. to central Mexico
- GRATELOUPIA SETCHELLII Kylin  
Smith, 1944  
Monterey, Calif.
- GRATELOUPIA SQUARRULOSA Setchell & Gardner  
Dawson, 1944  
Smith Is., Gulf of Calif.
- CRYPTONEMIA BOREALIS Kylin  
Kylin, 1925  
San Juan Co., Wash.
- CRYPTONEMIA DECOLORATA Taylor  
Taylor, 1945  
Is. María Magdalena, Nayarit
- CRYPTONEMIA OBOVATA J. Agardh  
Kylin, 1941; Dawson, 1945B  
San Francisco; La Jolla, Calif.
- CRYPTONEMIA OVALIFOLIA Kylin  
Smith, 1944; Sanborn & Doty, 1946  
Coos Bay, Oregon; Pacific Grove, Calif.
- AEODES GARDNERI Kylin  
Smith, 1944  
Puget Sound, Wash. to San Pedro, Calif.
- ESTEBANIA CONJUNTA Setchell & Gardner  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif. to Guaymas, Sonora
- POLYOPES BUSHIAE Farlow  
Kylin, 1941; Taylor, 1945  
San Pedro, Calif. to Is. Cedros, Baja Calif.
- POLYOPES CLARIONENSIS Setchell & Gardner  
Setchell & Gardner, 1937A  
Is. Clarion, Revilla Gigedo Arch.

POLYOPES SINICOLA Setchell & Gardner  
Dawson, 1944  
Northern Gulf of Calif.

HALYMENIA (?) ABYSSICOLA Dawson  
Dawson, 1944  
Is. Partida, Gulf of Calif.

HALYMENIA ACTINOPHYSA Howe  
Dawson, 1944; Taylor, 1945  
Punta Peñasco, Sonora; Is. Tiburón, Gulf of Calif.; Is.  
Clarion; Is. Socorro, Revilla Gigedo Arch.

HALYMENIA AGARDHII DeToni  
Taylor, 1945  
Is. María Magdalena, Nayarit

HALYMENIA CALIFORNICA Smith & Hollenberg  
Smith, 1944  
Monterey Peninsula, Calif.

HALYMENIA (?) REFUGIENSIS Dawson  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif.

ZANARDINULA ABBREVIATA (Setchell & Gardner) J. DeToni  
J. DeToni, 1936; *Prionitis abbreviata* in Dawson, 1944  
Is. San Esteban, Gulf of Calif. to Guaymas, Sonora

ZANARDINULA ANDERSONIANA (Eaton) Papenfuss  
Papenfuss, 1943; Dawson, 1945B; 1945E; *Prionitis And-  
ersoniana* in Smith, 1944; Sanborn & Doty, 1946  
Coos Bay, Oregon to Cabo Colnett, Baja Calif.

ZANARDINULA AUSTRALIS (J. Agardh) Papenfuss  
Papenfuss, 1943; *Prionitis australis* in Smith, 1944  
Monterey, Calif.

ZANARDINULA FILIFORMIS (Kylin) Papenfuss  
Papenfuss, 1943; *Prionitis filiformis* in Smith, 1944;  
Taylor, 1945  
Cape Arago, Oregon to Is. Cedros, Baja Calif.

ZANARDINULA FILIFORMIS var. DELICATULA (Taylor) Dawson  
Dawson, 1945D; *Prionitis filiformis* var. *delicatula* in  
Taylor, 1945  
Is. Cedros, Baja Calif.

ZANARDINULA GUAYMASENSIS (Dawson) Dawson  
Dawson, 1945D; *Prionitis guaymasensis* in Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif. to Guaymas, So-  
nora

ZANARDINULA KINOENSIS (Dawson) Dawson  
Dawson, 1945D; *Prionitis kinoensis* in Dawson, 1944  
Kino, Sonora

ZANARDINULA LANCEOLATA (Harvey) J. DeToni  
J. DeToni, 1936; *Prionitis lanceolata* in Smith, 1944  
Vancouver Is., B. C. to San Pedro, Calif.

ZANARDINULA LINEARIS (Kylin) Papenfuss  
Papenfuss, 1943; Dawson, 1945E; *Prionitis linearis* in  
Smith, 1944  
San Mateo Co., Calif. to Punta Descanso, Baja Calif.

ZANARDINULA LYALLII (Harvey) J. DeToni  
J. DeToni, 1936; *Prionitis Lyallii* in Smith, 1944; Taylor,  
1945  
Vancouver Is., B. C. to Carmel Bay, Calif.; Bahía Mag-  
dalena, Baja Calif. ?

ZANARDINULA MEXICANA (Dawson) Dawson  
Dawson, 1945D; *Prionitis mexicana* in Dawson, 1944  
Bahía Santa María; San Jose del Cabo; Baja Calif.

ZANARDINULA STERNBERGII (C. Agardh) J. DeToni  
J. DeToni, 1936; *Prionitis Sternbergii* in Dawson, 1944  
Georges Is., Gulf of Calif. to central Mexico

LOBOCOLAX DEFORMANS Howe  
Smith, 1944; Taylor, 1945; Dawson, 1945E  
Monterey, Calif.; Punta Descanso; Is. Cedros, Baja  
Calif.

### Fam. Kallymeniaceae

KALLYMENIA ANGUSTATA Setchell & Gardner  
Dawson, 1944; 1945C; Setchell & Gardner, 1937  
Mission Beach, Calif.; Bahía Santa María, Baja Calif.;  
Bahía Tepoca, Sonora

KALLYMENIA GUAYMASENSIS Dawson  
Dawson, 1944  
Guaymas, Sonora

KALLYMENIA OBLONGIFRUCTA Setchell  
Kylin, 1925; Setchell, 1912  
Sitka; Seldovia, Alaska to Puget Sound, Wash.

KALLYMENIA ORNATA (Postels & Ruprecht) J. Agardh  
Setchell & Gardner, 1903; Collins, 1913  
Yakutat Bay, Alaska to Vancouver Is., B. C.

KALLYMENIA PERTUSA Setchell & Gardner  
Dawson, 1944  
Is. San Pedro Martir, Gulf of Calif.

KALLYMENIA RENIFORMIS (Turner) J. Agardh  
Setchell & Gardner, 1903; Collins, 1913  
Esquimault, B. C.

KALLYMENIA RENIFORMIS f. CUNEATA J. Agardh  
Setchell & Gardner, 1903  
Unalaska; Morzhovoi Bay, Alaska

KALLYMENIA TENUIFOLIA Taylor  
Taylor, 1945  
Is. Socorro, Revilla Gigedo Arch.

KALLYMENIA VELEROAE Dawson  
Dawson, 1944  
Guaymas, Sonora

MEREDITHIA CALIFORNICA J. Agardh  
Kylin, 1941; J. Agardh, 1899  
California (locality unknown)

PUGETIA FIRMA Kylin  
Smith, 1944  
Monterey Peninsula, Calif.

PUGETIA FRAGILISSIMA Kylin  
Kylin, 1925; Sanborn & Doty, 1946  
Friday Harbor, Wash.; Coos Bay, Oregon

CALLOPHYLLIS ACROCARPA Setchell  
Setchell, 1923A  
Santa Cruz to Santa Barbara, Calif.

CALLOPHYLLIS CRASSIFOLIA Setchell & Swezy  
Smith, 1944  
San Mateo Co. to Carmel, Calif.

CALLOPHYLLIS CRENULATA Setchell  
Smith, 1944  
Whidbey Is., Wash.; Pacific Grove, Calif.

CALLOPHYLLIS DISSECTA Setchell & Swezy  
Kylin, 1941  
La Jolla, Calif.

CALLOPHYLLIS EDENTATA Kylin  
Kylin, 1925  
Friday Harbor, Wash.



- CALLOPHYLLIS FILICINA Setchell & Swezy  
Setchell, 1923A  
Venice to La Jolla, Calif.
- CALLOPHYLLIS FLABELLULATA Harvey  
Kylin, 1925; Sanborn & Doty, 1946  
Esquimault, B. C. to Coos Bay, Oregon
- CALLOPHYLLIS GARDNERI Setchell  
Setchell, 1923A  
Venice to Redondo, Calif.
- CALLOPHYLLIS HEANOPHYLLA Setchell  
Kylin, 1925; Sanborn & Doty, 1946  
Friday Harbor, Wash. to Coos Bay, Oregon
- CALLOPHYLLIS JOHNSTONII Setchell & Gardner  
Dawson, 1944  
Is. Tortuga, Gulf of Calif.
- CALLOPHYLLIS MARGINIFRUCTA Setchell & Swezy  
Smith, 1944; Sanborn & Doty, 1946  
Coos Bay, Oregon to San Diego, Calif.
- CALLOPHYLLIS MEGALOCARPA Setchell & Swezy  
Smith, 1944; Dawson, 1945E  
Whidbey Is., Wash. to Santa Barbara, Calif.; Punta  
Descanso, Baja Calif.
- CALLOPHYLLIS OBTUSIFOLIA J. Agardh  
Smith, 1944  
Santa Cruz to San Pedro, Calif.
- CALLOPHYLLIS ODONTHALIOIDES Setchell  
Setchell, 1923A  
Santa Cruz to San Diego, Calif.
- CALLOPHYLLIS PINNATA Setchell & Swezy  
Smith, 1944; Dawson, 1945E  
Marin Co. to Carmel, Calif.; Punta Descanso; Cabo  
Colnett, Baja Calif.
- CALLOPHYLLIS PLUMOSA Setchell & Swezy  
Setchell, 1923A  
San Pedro to La Jolla, Calif.
- CALLOPHYLLIS STENOPHYLLA Setchell  
Setchell, 1923A  
Bolas, Calif.
- CALLOPHYLLIS THOMPSONII Setchell  
Setchell, 1923A  
San Juan Co., Wash.

CALLOPHYLLIS VIOLACEA J. Agardh  
Kylin, 1941; Taylor, 1945; Dawson, 1945E  
Santa Barbara, Calif. to Cabo San Lazaro, Baja Calif.

CALLOCOLAX FUNGIFORMIS Kylin  
Kylin, 1925  
Friday Harbor, Wash.

CALLOCOLAX GLOBULOSIS Dawson  
Dawson, 1945D  
San Diego, Calif.

CALLOCOLAX NEGLECTUS Schmitz  
Smith, 1944  
Monterey, Calif.

### Fam. **Choreocolaceae**

CHOREOCOLAX POLYSIPHONIAE Reinsch  
Smith, 1944; Dawson, 1945E  
Sitka, Alaska; Monterey, Calif.; Cabo Colnett, Baja  
Calif.

## Order **GIGARTINALES**

### Fam. **Nemastomaceae**

PREDAEA MASONII (Setchell & Gardner) J. DeToni  
J. DeToni, 1936; *Clarionea Masonii* in Setchell & Gardner, 1930  
Is. Clarion, Revilla Gigedo Arch.

SCHIZYMENIA EPIPHYTICA (Setchell & Lawson) Smith & Hollenberg  
Smith, 1944; Papenfuss, 1944A  
Monterey Peninsula, Calif.

SCHIZYMENIA JOHNSTONII Setchell & Gardner  
Dawson, 1944  
Is. San Esteban, Gulf of Calif.

SCHIZYMENIA PACIFICA Kylin  
Smith, 1944; Dawson, 1945E  
Unga Is., Alaska to Punta Descanso, Baja Calif.

**Fam. Solieriaceae**

TURNERELLA MERTENSIANA (Postels & Ruprecht) Schmitz  
Setchell & Gardner, 1903; Collins, 1913  
Shumagin Is., Alaska to Victoria, B. C. ?

EUCHEUMA UNCINATUM Setchell & Gardner  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif. to Mazatlán, Sinaloa

AGARDHIELLA COULTERI (Harvey & Bailey) Setchell  
Smith, 1944; Dawson, 1945E  
Vancouver Is., B. C. to Cabo Colnett, Baja Calif.

AGARDHIELLA MEXICANA Dawson  
Dawson, 1944; 1945E  
Bahía Gonzaga, Baja Calif.; Is. Angel de la Guarda,  
Gulf of Calif.; Cabo Colnett, Baja Calif.

AGARDHIELLA TENERA (J. Agardh) Schmitz  
Dawson, 1944; Taylor, 1945  
San Jose del Cabo, Baja Calif.; Is. Clarion, Revilla  
Gigedo Arch.

GARDNERIELLA TUBIFERA Kylin  
Smith, 1944; Dawson, 1945E  
Monterey Peninsula, Calif.; Punta Descanso; Cabo Col-  
nett, Baja Calif.

OPUNTIELLA CALIFORNICA (Farlow) Kylin  
Smith, 1944  
Unga Is., Alaska to San Diego, Calif.

SARCODIOTHECA CUNEATA Setchell & Gardner  
Setchell & Gardner, 1937A  
Is. San Martin, Baja Calif.

SARCODIOTHECA DICHOTOMA (Howe) Dawson  
Dawson, 1944  
Guaymas, Sonora to La Paz, Baja Calif.

SARCODIOTHECA ECUADOREANA Taylor  
Taylor, 1945  
Is. María Magdalena, Nayarit; Puerto Culebra, Costa  
Rica

SARCODIOTHECA ELONGATA (Setchell & Gardner) Setchell  
Dawson, 1944  
Is. Tiburón; Is. San Pedro Martir, Gulf of Calif.

SARCODIOTHECA FURCATA (Setchell & Gardner) Kylin  
Kylin, 1932  
Friday Harbor, Wash.

SARCODIOTHECA LINEARIS Setchell & Gardner  
Dawson, 1944  
Cape district, Baja Calif.

SARCODIOTHECA MERIDIONALIS Setchell & Gardner  
Setchell & Gardner, 1937A  
Is. San Martin, Baja Calif.

### Fam. **Hypneaceae**

HYPNEA ADUNCA J. Agardh  
Kylin, 1941  
Santa Barbara; San Diego, Calif.

HYPNEA CALIFORNICA Kylin  
Kylin, 1941; Taylor, 1945  
La Jolla, Calif.; Bahía Petatlán, Guerrero

HYPNEA ESPERI Bory  
Dawson, 1944; 1946  
La Jolla, Calif.; Ensenada, Baja Calif.; Is. Tiburón,  
Gulf of Calif. to Bahía Agua Verde, Baja Calif.

HYPNEA EVERMANII Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.

HYPNEA JOHNSTONII Setchell & Gardner  
Dawson, 1944; Taylor, 1945  
Cabo San Lazaro; Bahía Santa María, Baja Calif.; Pond  
Is., Gulf of Calif. to Guaymas, Sonora

HYPNEA NIDIFICA J. Agardh  
Dawson, 1944  
Punta Peñasco, Sonora to Costa Rica

HYPNEA NIDULANS Setchell  
Dawson, 1944  
Pond Is., Gulf of Calif. to Bahía Agua Verde, Baja  
Calif.

HYPNEA PANNOSA J. Agardh  
Dawson, 1944; Taylor, 1945  
Is. Tiburón, Gulf of Calif. to Is. Secas, Panamá

HYPNEA SPINELLA (C. Agardh) Kützing  
Taylor, 1945  
Bahía Petatlán, Guerrero

HYPNEA VARIABILIS Okamura  
Dawson, 1946  
La Jolla, Calif.; Ensenada, Baja Calif.



**Fam. Rhodophyllidaceae**

EUTHORA CRISTATA (Linnaeus) J. Agardh  
Setchell & Gardner, 1903  
Shumagin Is. to Cook Inlet, Alaska

EUTHORA FRUTICULOSA (Ruprecht) J. Agardh  
Kylin, 1925  
Vancouver Is., B. C. to Friday Harbor, Wash.

RHODOPHYLLIS DICHOTOMA f. SETACEA Kjellman  
Setchell & Gardner, 1903  
Unalaska, Alaska

**Fam. Plocamiaceae**

PLOCAMIUM PACIFICUM Kylin  
Smith, 1944; Taylor, 1945; Dawson, 1945E  
Vancouver Is., B. C. to Is. Clarion, Revilla Gigedo Arch.

PLOCAMIUM TENUE Kylin  
Kylin, 1925  
Friday Harbor, Wash.

PLOCAMIUM VIOLACEUM Farlow  
Smith, 1944  
Vancouver Is., B. C. to San Diego, Calif.

PLOCAMIOCOLAX PULVINATA Setchell  
Smith, 1944; Dawson, 1945C  
San Juan Is., Wash. to La Jolla, Calif.

**Fam. Gracilariaceae**

CORALLOPSIS SALICORNIA (C. Agardh) Greville  
Kylin, 1932  
Unalaska, Alaska (a very doubtful record)

GRACILARIA ANDERSONII (Grunow) Kylin  
Kylin, 1941; Dawson, 1945E  
La Jolla, Calif. to Cabo Colnett, Baja Calif.

GRACILARIA CERROSIANA Taylor  
Taylor, 1945  
Is. Cedros, Baja Calif.

GRACILARIA COMPRESSA (C. Agardh) Greville  
Dawson, 1944  
Vicinity of Guaymas, Sonora

- GRACILARIA CONFERVOIDES (Linnaeus) Greville  
Dawson, 1944; 1945B; Taylor, 1945  
San Diego, Calif.; Gulf of Calif.; Is. Clarion, Revilla  
Gigedo Arch.
- GRACILARIA CRISPATA Setchell & Gardner  
Dawson, 1944  
Is. Tiburón, Gulf of Calif.; Is. Clarion, Revilla Gigedo  
Arch.; Bahía Banderas
- GRACILARIA GUAYMASENSIS Dawson  
Dawson, 1944  
Guaymas, Sonora
- GRACILARIA HANCOCKII Dawson  
Dawson, 1944  
Is. Angel de la Guarda; Is. Tiburón, Gulf of Calif.
- GRACILARIA JOHNSTONII Setchell & Gardner  
Dawson, 1944; Taylor, 1945  
Punta Turloe, Baja Calif. to Is. Isabel, Nayarit; Gulf of  
Calif.
- GRACILARIA LACERATA Setchell & Gardner  
Dawson, 1944  
Santa Rosalia, Baja Calif.; Guaymas, Sonora
- GRACILARIA LICHENOIDES (Linnaeus) Harvey  
Dawson, 1944  
Bahía Concepción, Baja Calif. (doubtful)
- GRACILARIA LINEARIS Kylin  
Smith, 1944; Dawson, 1945B; 1945E  
Monterey Peninsula; San Pedro, Calif.; Punta Des-  
canso, Baja Calif.
- GRACILARIA PACHYDERMATICA Setchell & Gardner  
Dawson, 1944  
Is. Tortuga, Gulf of Calif.
- GRACILARIA PANAMENSIS Taylor  
Taylor, 1945  
Puerto Culebra, Costa Rica; Is. Taboga, Panamá
- GRACILARIA PINNATA Setchell & Gardner  
Dawson, 1944; Taylor, 1939; 1945  
Bahía Magdalena, Baja Calif.; Is. Angel de la Guarda,  
Gulf of Calif. to Is. María Magdalena, Nayarit
- GRACILARIA ROBUSTA Setchell  
Smith, 1944  
Monterey Peninsula, Calif.

*GRACILARIA SJOESTEDTII* Kylin

Smith, 1944; Dawson, 1944; 1945E

Vancouver Is., B. C. to Cabo Colnett, Baja Calif.; Bahía Tepoca, Sonora

*GRACILARIA SUBSECUNDATA* Setchell & Gardner

Dawson, 1944

Guaymas, Sonora

*GRACILARIA TENUIFOLIA* Taylor

Taylor, 1945

Is. Socorro; Is. Clarion, Revilla Gigedo Arch.

*GRACILARIA VELEROAE* Dawson

Dawson, 1944; 1946

Bahía San Felipe, Baja Calif. to Guaymas, Sonora; La Jolla; Coronado, Calif.; Is. Socorro; Is. Clarion, Revilla Gigedo Arch.

*GRACILARIA VIVESII* Howe

Dawson, 1944

Guaymas, Sonora to La Paz, Baja Calif.

*GRACILARIOPHILA GARDNERI* Setchell

Setchell, 1923; Dawson, 1945C

Santa Monica to La Jolla, Calif.

*GRACILARIOPHILA ORYZOIDES* Setchell & Wilson

Smith, 1944; Dawson, 1945E

Coos Bay, Oregon to Cabo Colnett, Baja Calif.

*TYLOTUS CUNNINGHAMII* (J. Agardh) Kylin

Kylin, 1941; Dawson, 1945C

Santa Barbara to La Jolla, Calif.

**Fam. Dicranemaceae***DICRANEMA ROSALIAE* Setchell & Gardner

Dawson, 1944

Is. Angel de la Guarda to Is. Espíritu Santo, Gulf of Calif.

**Fam. Phylloporaceae***PHYLLOPHORA CALIFORNICA* (J. Agardh) Kylin

Kylin, 1932

San Francisco, Calif.

*PHYLLOPHORA CLEVELANDII* Farlow

Smith, 1944

Bolinás, Calif. to near Rosarita Beach, Baja Calif.

- PETROGLOSSUM PACIFICUM Hollenberg  
Hollenberg, 1943; 1945  
Coos Bay, Oregon to La Jolla, Calif.
- PETROGLOSSUM PARVUM Hollenberg  
Hollenberg, 1945  
Laguna Beach; La Jolla, Calif.
- AHNFEITIA GIGARTINOIDES J. Agardh  
Smith, 1944; Taylor, 1945  
Vancouver Is. B. C. to San Agustin, Oaxaca
- AHNFEITIA PLICATA (Hudson) Fries  
Smith, 1944  
Bering Sea to Carmel, Calif.
- GYMNOGONGRUS CARNOSUS Setchell & Gardner  
Dawson, 1944  
Is. San Pedro Martir, Gulf of Calif.
- GYMNOGONGRUS DIVARICATUS Holmes  
Dawson, 1944  
Turner's Is., Gulf of Calif.
- GYMNOGONGRUS HANCOCKII Dawson  
Dawson, 1944  
Kino, Sonora
- GYMNOGONGRUS LEPTOPHYLLUS J. Agardh  
Smith, 1944; Dawson, 1945E  
San Francisco to San Diego, Calif.; Cabo Colnett, Baja  
Calif.
- GYMNOGONGRUS LINEARIS (Turner) J. Agardh  
Smith, 1944  
Coos Bay, Oregon to San Luis Obispo Co., Calif.
- GYMNOGONGRUS MARTINENSIS Setchell & Gardner  
Setchell & Gardner, 1937A; Taylor, 1945  
Is. San Martin, Bahía San Bartolomé, Baja Calif.; Is.  
Socorro, Revilla Gigedo Arch.
- GYMNOGONGRUS NORVEGICUS (Turner) J. Agardh  
Collins, 1913  
Ucluelet, Vancouver, B. C.
- GYMNOGONGRUS PLATYPHYLLUS Gardner  
Smith, 1944  
Bolinás, Calif. to Ensenada, Baja Calif.
- GYMNOGONGRUS SINICOLA Dawson  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif. to Guaymas, So-  
nora



*STENOGRAMME CALIFORNICA* Harvey

Smith, 1944

San Juan Is., Wash. to San Diego, Calif.

*STENOGRAMME INTERRUPTA* (C. Agardh) Montagne

Taylor, 1945

Is. Clarion; Is. Socorro, Revilla Gigedo Arch.

**Fam. Gigartinaceae***CHONDRUS CRISPUS* (Linnaeus) Lyngbye

Setchell &amp; Gardner, 1903

Bering Sea to Unalaska, Alaska

*GIGARTINA AGARDHII* Setchell & Gardner

Smith, 1944; Sanborn &amp; Doty, 1946

Coos Bay, Oregon to La Jolla, Calif.

*GIGARTINA ARMATA* J. Agardh

Setchell &amp; Gardner, 1933; Taylor, 1945

San Diego, Calif. to Is. Cedros, Baja Calif.

*GIGARTINA ASPERIFOLIA* J. Agardh

Setchell &amp; Gardner, 1933

Santa Barbara to La Jolla, Calif.

*GIGARTINA BINGHAMIAE* J. Agardh

Setchell &amp; Gardner, 1933; Sanborn &amp; Doty, 1946

Coos Bay, Oregon; Southern Calif.; Puget Sound ?

*GIGARTINA BORYI* Setchell & Gardner

Smith, 1944

Pacific Grove to San Diego, Calif.

*GIGARTINA CALIFORNICA* J. Agardh

Smith, 1944; Sanborn &amp; Doty, 1946; Dawson, 1945E

Coos Bay, Oregon to Carmel, Calif.; Punta Descanso;  
Cabo Colnett, Baja Calif.*GITARTINA CANALICULATA* Harvey

Smith, 1944; Dawson, 1945E

Coos Bay, Oregon to Cabo Colnett, Baja Calif.

*GIGARTINA CORYMBIFERA* (Kützinger) J. Agardh

Smith, 1944

Fort Ross to San Diego, Calif.

*GIGARTINA CRISTATA* (Setchell) Setchell & Gardner

Smith, 1944; Dawson, 1945E

Westport, Wash. to Point Sur, Calif.; Punta Descanso,  
Baja Calif.

- GIGARTINA DICHOTOMA Gardner  
Setchell & Gardner, 1933  
Duxbury Reef, Marin Co. to Point Sur, Calif.
- GIGARTINA EATONIANA J. Agardh  
Setchell & Gardner, 1933; Dawson, 1944  
Santa Barbara to La Jolla, Calif.; Puerto Libertad, Sonora to Is. Tiburón, Gulf of Calif.
- GIGARTINA ECHINATA Gardner  
Setchell & Gardner, 1933  
Santa Cruz (?); Santa Catalina Is.; La Jolla, Calif.
- GIGARTINA EXASPERATA Harvey & Bailey  
Setchell & Gardner, 1933  
Vancouver Is., B. C. to northern Calif.
- GIGARTINA HARVEYANA (Kützinger) Setchell & Gardner  
Smith, 1944; Dawson, 1945E  
Santa Cruz, Calif. to Punta Descanso, Baja Calif.
- GIGARTINA JARDINII J. Agardh  
Setchell & Gardner, 1933  
Monterey; Santa Barbara, Calif.
- GIGARTINA JOHNSTONII Dawson  
Dawson, 1944  
Bahía Gonzaga, Baja Calif. to Turner's Is., Gulf of Calif.
- GIGARTINA LATISSIMA (Harvey) Eaton  
Setchell & Gardner, 1933  
Near Esquimaux, B. C.
- GIGARTINA LEPTORHYNCHOS J. Agardh  
Smith, 1944; Taylor, 1945; Dawson, 1945E  
Santa Cruz, Calif. to Is. Cedros, Baja Calif.
- GIGARTINA MACDOUGALII Dawson  
Dawson, 1944  
Puerto Libertad, Sonora
- GIGARTINA MAMILLOSA (Goodenough & Woodward) J. Agardh  
Setchell & Gardner, 1933  
Westport, Wash.; Seal Rocks, Oregon
- GIGARTINA MULTIDICHOTOMA Dawson  
Dawson, 1946  
La Jolla, Calif.; Punta Descanso, Baja Calif.
- GIGARTINA OBOVATA J. Agardh  
Setchell & Gardner, 1933  
San Francisco, Calif.

- GIGARTINA PAPILLATA (C. Agardh) J. Agardh  
Smith, 1944; Dawson, 1945E  
Tomales Bay to Carmel, Calif.; Punta Descanso, Baja  
Calif.
- GIGARTINA PECTINATA Dawson  
Dawson, 1944; 1946  
Punta Peñasco, Sonora; Bahía Los Angeles; Is. Angel  
de la Guarda, Gulf of Calif.
- GIGARTINA SERRATA Gardner  
Setchell & Gardner, 1933; Taylor, 1945  
Balboa, Calif. to Is. Cedros, Baja Calif.
- GIGARTINA SITCHENSIS Ruprecht  
Setchell & Gardner, 1933  
Sitka, Alaska to Whidbey Is., Wash.
- GIGARTINA SPINOSA (Kützing) Harvey  
Smith, 1944; Dawson, 1945E  
Monterey, Calif. to Punta Descanso, Baja Calif.
- GIGARTINA STELLATA (Stackhouse) Batters  
Setchell & Gardner, 1933  
West Coast of Vancouver Is., B. C.
- GIGARTINA TEPIDA Hollenberg  
Hollenberg, 1945; Dawson, 1944 as *G. Teedii*  
Balboa Harbor, Calif.; Guaymas, Sonora
- GIGARTINA TURNERI Setchell & Gardner  
Setchell & Gardner, 1933; Dawson, 1945B  
Southern Calif. ?
- GIGARTINA UNALASCHCENSIS (Ruprecht) Ruprecht  
Setchell & Gardner, 1933  
Bering Sea to Whidbey Is., Wash.
- RHODOGLOSSUM AFFINE (Harvey) Kylin  
Smith, 1944; Sanborn & Doty, 1946; Dawson, 1945E  
Coos Bay, Oregon to Punta Descanso, Baja Calif.
- RHODOGLOSSUM AMERICANUM Kylin  
Smith, 1944; Dawson, 1945B; 1946  
Bollinas to Carmel; Coronado, Calif.; Cabo Colnett, Baja  
Calif.
- RHODOGLOSSUM CORIACEUM Dawson  
Dawson, 1946  
Punta Banda; Punta Descanso, Baja Calif.
- RHODOGLOSSUM HANCOCKII Dawson  
Dawson, 1944  
Is. San Esteban, Gulf of Calif.

- RHODOGLOSSUM LATISSIMUM J. Agardh  
Kylin, 1925  
Whidbey Is., Wash.
- RHODOGLOSSUM PARVUM Smith & Hollenberg  
Smith, 1944  
Monterey, Calif.
- RHODOGLOSSUM ROSEUM (Kylin) G. M. Smith  
Smith, 1944; Dawson, 1946  
Monterey Peninsula, Calif.; Punta Descanso, Baja Calif.
- IRIDOPHYCUS CALIFORNICUM (J. Agardh) Dawson  
Dawson, 1945D; *Iridea californica* in Kylin, 1941  
Santa Barbara, Calif.
- IRIDOPHYCUS CORDATUM (Turner) Setchell & Gardner  
Setchell, 1940; Setchell & Gardner, 1937  
Table and Calvert Is.; Vancouver Is., B. C.; Whidbey  
Is., Wash.
- IRIDOPHYCUS CORIACEUM Setchell & Gardner  
Smith, 1944  
Neah Bay, Wash. to Carmel, Calif.
- IRIDOPHYCUS FLACCIDUM Setchell & Gardner  
Smith, 1944; Sanborn & Doty, 1946  
Coos Bay, Oregon to Point Sur, Calif.
- IRIDOPHYCUS FULGENS Setchell & Gardner  
Setchell & Gardner, 1937  
Trinidad, Humboldt Co. to central Calif.
- IRIDOPHYCUS FURCATUM Setchell & Gardner  
Setchell & Gardner, 1937  
Sitka, Alaska
- IRIDOPHYCUS HETEROCARPUM (Postels & Ruprecht) Setchell  
& Gardner  
Smith, 1944  
Vancouver Is., B. C. to Point Sur, Calif.
- IRIDOPHYCUS LINEARE Setchell & Gardner  
Smith, 1944  
Sunset Bay, Oregon to Ventura, Calif.
- IRIDOPHYCUS PARKSII Setchell & Gardner  
Setchell & Gardner, 1937  
Trinidad, Calif.
- IRIDOPHYCUS PARVULUM (Kjellman) Setchell & Gardner  
Setchell & Gardner, 1937  
Unalaska; Kodiak Is., Alaska



IRIDOPHYCUS REEDIAE Setchell & Gardner  
Setchell & Gardner, 1937  
Bushnell's Beach, San Luis Obispo Co., Calif.

IRIDOPHYCUS SANGUINEUM Setchell & Gardner  
Smith, 1944  
Cape Arago, Oregon to Pacific Grove, Calif.

IRIDOPHYCUS SINICOLA Setchell & Gardner  
Setchell & Gardner, 1937  
San Francisco Bay, Calif.

IRIDOPHYCUS SPLENDENS Setchell & Gardner  
Smith, 1944  
Cape Kiawandi, Oregon to southern Calif.

IRIDOPHYCUS WHIDBEYANUM Setchell & Gardner  
Setchell & Gardner, 1937  
Whidbey Is., Wash.

ERYTHROPHYLLUM DELESSERIOIDES J. Agardh  
Smith, 1944  
Departure Bay, Alaska to San Luis Obispo Co., Calif.

ERYTHROPHYLLUM GMELINI (Grunow) Yendo  
Setchell & Gardner, 1903  
Agattu Is., Alaska

BESA PAPILLAEFORMIS Setchell  
Smith, 1944  
Lands End, San Francisco; Monterey, Calif.

## Order RHODYMENIALES

### Fam. Rhodymeniaceae

FAUCHEA CRISPA Taylor  
Taylor, 1945  
Is. María Magdalena, Nayarit

FAUCHEA FRYEANA Setchell  
Kylin, 1925  
Vicinity of Friday Harbor, Wash.

FAUCHEA LACINIATA J. Agardh  
Setchell, 1912; Kylin, 1941  
Santa Barbara, Calif.

- FAUCHEA MEDIA Kylin  
Smith, 1944  
Monterey Peninsula, Calif.
- FAUCHEA MOLLIS Howe  
Dawson, 1944  
La Paz, Baja Calif.
- FAUCHEA PYGMAEA (Setchell & Gardner) Kylin  
Kylin, 1941  
San Pedro, Calif.
- FAUCHEA SEFFERI Howe  
Dawson, 1944  
La Paz, Baja Calif.
- FAUCHEOCOLAX ATTENUATA Setchell  
Smith, 1944  
Monterey Peninsula, Calif.
- SCIADOPHYCUS STELLATUS Dawson  
Dawson, 1945A  
San Diego, Calif.; Is. Cedros, Baja Calif.
- LEPTOFAUCHEA PACIFICA Dawson  
Dawson, 1945A  
Is. Cedros, Baja Calif.
- FRYELLA GARDNERI (Setchell) Kylin  
Kylin, 1931  
Friday Harbor to Point Defiance, Wash.
- BOTRYOCLADIA HANCOCKII Dawson  
Dawson, 1944  
Bahía Agua Verde, Baja Calif.
- BOTRYOCLADIA PSEUDODICHOTOMA (Farlow) Kylin  
Smith, 1944; Taylor, 1945  
Vancouver Is., B. C. to Is. María Magdalena, Nayarit;  
Is. Socorro, Revilla Gigedo Arch.
- BOTRYOCLADIA PSEUDODICHOTOMA var. DATILENSIS Dawson  
Dawson, 1944  
Is. Tiburón, Gulf of Calif.
- BOTRYOCLADIA UVARIOIDES Dawson  
Dawson, 1944  
San Jose del Cabo; Cabo San Lucas, Baja Calif.
- HALOSACCION GLANDIFORME (Gmelin) Ruprecht  
Smith, 1944  
Westernmost Aleutian Islands, Alaska to Baja Calif.

- HALOSACCION RAMENTACEUM* (Linnaeus) J. Agardh  
Setchell & Gardner, 1903  
Sannak Is. to Cook Inlet, Alaska
- HALOSACCION TILESII* Kjellman  
Setchell & Gardner, 1903  
Kukak Bay to Wrangel, Alaska
- RHODYMENIA ARBORESCENS* Dawson  
Dawson, 1941  
Laguna Beach, Calif.
- RHODYMENIA ATTENUATA* Dawson  
Smith, 1944  
Monterey to San Pedro, Calif.
- RHODYMENIA CALIFORNICA* Kylin  
Smith, 1944; Dawson, 1945; Sanborn & Doty, 1946  
Coos Bay, Oregon to San Diego, Calif.
- RHODYMENIA DAWSONII* Taylor  
Taylor, 1945  
Cabo San Lazaro; Bahía Santa María, Baja Calif.
- RHODYMENIA DIVARICATA* Dawson  
Dawson, 1944  
Guaymas, Sonora; Is. Angel de la Guarda, Gulf of Calif.
- RHODYMENIA HANCOCKII* Dawson  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif.
- RHODYMENIA LOBATA* Dawson  
Smith, 1944; Dawson, 1944  
Monterey, Calif.; near Is. Isabel, Nayarit
- RHODYMENIA LOBULIFERA* Dawson  
Smith, 1944  
Bolinás; Carmel; San Pedro, Calif.
- RHODYMENIA PACIFICA* Kylin  
Smith, 1944; Dawson, 1945D  
Coos Bay, Oregon to San Diego, Calif.
- RHODYMENIA PALMATA* (Linnaeus) Greville  
Dawson, 1941  
Aleutian Is., Alaska; British Columbia; Puget Sound,  
Wash.
- RHODYMENIA PALMATA* f. *MOLLIS* Setchell & Gardner  
Smith, 1944  
Agattu Is., Alaska to Pacific Grove, Calif.

RHODYMENIA PALMATA f. SARNIENSIS (Mertens) J. Agardh  
Setchell & Gardner, 1903  
Kodiak Is. to Orca, Alaska

RHODYMENIA PALMETTIFORMIS Dawson  
Dawson, 1941; 1945; 1945E  
La Jolla, Calif.; Cabo Colnett, Baja Calif.

RHODYMENIA PERTUSA (Postels & Ruprecht) J. Agardh  
Kylin, 1925; Dawson, 1941; Sanborn & Doty, 1946  
Alaska to Coos Bay, Oregon

RHODYMENIA RHIZOIDES Dawson  
Dawson, 1941; 1945  
San Pedro to San Diego, Calif.

RHODYMENIA ROSEA Dawson  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif.

RHODYMENIA STIPITATA Kylin  
Dawson, 1941  
British Columbia; Puget Sound, Wash.

RHODYMENIA (?) TEPOCENSIS Dawson  
Dawson, 1944  
Bahía Tepoca, Sonora; Pond Is.; Gulf of Calif.

RHODYMENIOLAX BOTRYOIDEA Setchell  
Dawson, 1945D  
San Pedro to San Diego, Calif.

### Fam. Champiaceae

BINGHAMIELLA CALIFORNICA Setchell & Dawson  
Setchell & Dawson, 1941  
Santa Barbara to Santa Monica, Calif.

BINGHAMIELLA FORKII Dawson  
Dawson, 1945  
La Jolla, Calif.

LOMENTARIA BAILEYANA (Harvey) Farlow  
Taylor, 1945  
Revilla Gigedo Arch.; Puerto Culebra, Costa Rica

LOMENTARIA CASEAE Dawson  
Dawson, 1946  
Del Mar, Calif.



*LOMENTARIA CATENATA* Harvey

Dawson, 1944

Pond Is. to Is. Tortuga, Gulf of Calif.

*LOMENTARIA DROUETII* Dawson

Dawson, 1944

Guaymas, Sonora

*LOMENTARIA HAKODATENSIS* Yendo

Dawson, 1944

Is. Guadalupe, Baja Calif.; Is. Angel de la Guarda, Gulf of Calif.; Guaymas, Sonora

*CHAMPIA CAESPITOSA* Dawson

Dawson, 1944

Is. Angel de la Guarda, Gulf of Calif.

*CHAMPIA DISTICHA* Dawson

Dawson, 1944

Is. Angel de la Guarda; Is. San Esteban, Gulf of Calif.

*CHAMPIA PARVULA* (C. Agardh) Harvey

Dawson, 1944

Is. Tiburón, Gulf of Calif. to San Jose del Cabo, Baja Calif.; Is. Clarion, Revilla Gigedo Arch.

*GASTROCLONIUM CLAVATUM* (Roth) Ardissonne

Dawson, 1944

Bahía San Bartholomé, Baja Calif.; Punta Peñasco to Guaymas, Sonora

*GASTROCLONIUM COULTERI* (Harvey) Kylin

Smith, 1944; Dawson, 1945E

Nootka Sound, B. C. to Cabo Colnett, Baja Calif.

*COELOSEIRA COMPRESSA* Hollenberg

Smith, 1944

Pacific Grove, Calif. to Punta Banda, Baja Calif.

*COELOSEIRA PARVA* Hollenberg

Hollenberg, 1940

Redondo to La Jolla, Calif.

Order **CERAMIALES**Fam. **Ceramiaceae***TRAILLIELLA INTRICATA* (J. Agardh) Batters

Kylin, 1925

Friday Harbor, Wash.

- ANTITHAMNION ALTERNANS Gardner  
Gardner, 1927B  
Cook Inlet, Alaska
- ANTITHAMNION ASYMMETRICUM Gardner  
Gardner, 1927C  
Sitka, Alaska
- ANTITHAMNION BAYLESIAE Gardner  
Smith, 1944  
Monterey Peninsula, Calif.
- ANTITHAMNION DEFECTUM Kylin  
Smith, 1944; Sanborn & Doty, 1946  
Friday Harbor, Wash. to Monterey, Calif.
- ANTITHAMNION DENDROIDEUM Smith & Hollenberg  
Smith, 1944  
Monterey, Calif.
- ANTITHAMNION DENSIVASCULUM Gardner  
Smith, 1944  
Vancouver, B. C.; Puget Sound, Wash.; Pacific Grove,  
Calif.
- ANTITHAMNION FLOCCOSUM (Müller) Kleen  
Kylin, 1925  
Friday Harbor, Wash.
- ANTITHAMNION GARDNERI J. DeToni  
J. DeToni, 1935; *Antithamnion tenuissimum* in Gardner  
1927B  
La Jolla, Calif.
- ANTITHAMNION GLANDULIFERUM Kylin  
Smith, 1944  
Puget Sound, Wash. to Carmel, Calif.
- ANTITHAMNION KYLINII Gardner  
Smith, 1944  
Victoria, B. C.; Monterey, Calif.
- ANTITHAMNION NIGRICANS Gardner  
Gardner, 1927C  
Vancouver Is., B. C.
- ANTITHAMNION OCCIDENTALE Kylin  
Smith, 1944; Dawson, 1945B  
Puget Sound, Wash.; Carmel; La Jolla, Calif.
- ANTITHAMNION PACIFICUM (Harvey) Kylin  
Smith, 1944; Dawson, 1944  
Yakutat Bay, Alaska to La Jolla, Calif.; Bahía Tepoca;  
Guaymas, Sonora

- ANTITHAMNION PULCHELLUM Gardner  
Gardner, 1927C  
Santa Monica, Calif.
- ANTITHAMNION PYGMAEUM Gardner  
Smith, 1944  
Pacific Grove to San Diego, Calif.
- ANTITHAMNION SECUNDATUM Gardner  
Gardner, 1927C  
San Diego, Calif.
- ANTITHAMNION SETACEUM Gardner  
Gardner, 1927B  
San Diego, Calif.
- ANTITHAMNION SIMULANS Gardner  
Gardner, 1927B  
Sitka, Alaska
- ANTITHAMNION SUBLITTORALE Setchell & Gardner  
Dawson, 1944  
San Jose del Cabo, Baja Calif.
- ANTITHAMNION SUBULATUM (Harvey) J. Agardh  
Smith, 1944  
Puget Sound, Wash.; Monterey, Calif.
- ANTITHAMNION UNCINATUM Gardner  
Smith, 1944  
Puget Sound, Wash. to Carmel, Calif.
- PLATYTHAMNION HETEROMORPHUM J. Agardh  
Smith, 1944  
San Francisco to San Pedro, Calif.
- PLATYTHAMNION PECTINATUM Kylin  
Smith, 1944; Dawson, 1945E  
Puget Sound, Wash. to San Pedro, Calif.; Cabo Col-  
nett, Baja Calif.
- PLATYTHAMNION PECTINATUM var. LAXUM Taylor  
Taylor, 1945  
Is. Clarion, Revilla Gigedo Arch.
- PLATYTHAMNION REVERSUM (Setchell & Gardner) Kylin  
Kylin, 1925  
Whidbey Is., Wash.
- PLATYTHAMNION TEPOCENSIS Dawson  
Dawson, 1944  
Bahía Tepoca, Sonora

- PLATYTHAMNION VILLOSUM Kylin  
Smith, 1944  
Sitka, Alaska; Puget Sound, Wash. to Monterey, Calif.
- CALLITHAMNION ACUTUM Kylin  
Kylin, 1925  
San Juan Is., Wash.
- CALLITHAMNION ARBORESCENS Gardner  
Gardner, 1927B  
Sitka, Alaska
- CALLITHAMNION BISERIATUM Kylin  
Smith, 1944  
Friday Harbor, Wash.; Monterey, Calif.
- CALLITHAMNION BISPORUM Gardner  
Gardner, 1927C  
San Juan Is., Wash.
- CALLITHAMNION BREVIAMOSUM Gardner  
Gardner, 1927C  
La Jolla, Calif.
- CALLITHAMNION BYSSOIDES Arnott  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.
- CALLITHAMNION CALIFORNICUM Gardner  
Smith, 1944  
Monterey Peninsula, Calif.
- CALLITHAMNION ENDOVAGINUM Setchell & Gardner  
Kylin, 1941; Dawson, 1944  
La Jolla, Calif.; Guaymas, Sonora
- CALLITHAMNION LAXUM Setchell & Gardner  
Gardner, 1927C  
Straits of Juan de Fuca; San Juan Co., Wash.
- CALLITHAMNION PACIFICUM Taylor  
Taylor, 1945  
Is. Socorro, Revilla Gigedo Arch.
- CALLITHAMNION PIKEANUM Harvey  
Smith, 1944  
Vallenar Point, Alaska to Carmel, Calif.
- CALLITHAMNION PIKEANUM var. PACIFICUM (Harvey)  
Setchell & Gardner  
Gardner, 1927C  
Shumagin Is., Alaska to Straits of Juan de Fuca



- CALLITHAMNION RAMOSISSIMUM Gardner  
Gardner, 1927C  
La Jolla, Calif.
- CALLITHAMNION RUPICOLUM Anderson  
Smith, 1944  
Fort Ross to La Jolla, Calif.
- CALLITHAMNION SOCCORIENSE Taylor  
Taylor, 1945  
Is. Socorro, Revilla Gigedo Arch.
- CALLITHAMNION SQUARRULOSUM Harvey  
Harvey, 1853; J. Agardh, 1876  
Golden Gate (San Francisco) Calif.
- CALLITHAMNION VELEROAE Dawson  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif.; Bahía Tepoca,  
Sonora
- SPYRIDIA FILAMENTOSA (Wulfen) Harvey  
Setchell & Gardner, 1930; Kylin, 1941; Taylor, 1945  
Southern Calif.; Is. Guadalupe, Baja Calif.; Is. Taboga,  
Panamá
- CROUANIA ATTENUATA (Bonnemaison) J. Agardh  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif. ?
- GYMNOTHAMNION ELEGANS (Schousboe) J. Agardh  
Setchell & Gardner, 1930  
Is. Clarion, Revilla Gigedo Arch.
- HALOPLEGMA MEXICANUM Taylor  
Taylor, 1945  
Is. María Magdalena, Nayarit
- PLEONOSPORIUM ABYSICOLA Gardner  
Gardner, 1927B  
Friday Harbor, Wash.
- PLEONOSPORIUM DASYOIDES (J. Agardh) DeToni  
Smith, 1944; Dawson, 1946  
Tomales Bay to San Pedro, Calif.; Punta Descanso,  
Baja Calif.
- PLEONOSPORIUM POLYCARPUM Gardner  
Gardner, 1927B  
La Jolla, Calif.

- PLEONOSPORIUM PYGMAEUM Gardner  
Gardner, 1927B  
La Jolla, Calif.
- PLEONOSPORIUM SQUARROSUM Kylin  
Kylin, 1925  
San Juan Is., Wash.
- PLEONOSPORIUM SQUARROSUM var. OBOVATUM Gardner  
Gardner, 1927C; Dawson, 1945D  
Sidney, Vancouver Is., B. C.
- PLEONOSPORIUM VANCOUVERIANUM J. Agardh  
Smith, 1944  
Vancouver Is., B. C.; Puget Sound, Wash.; Monterey,  
Calif.
- SPERMOTHAMNION SACCORHIZA (Setchell & Gardner) Feld-  
mann-Mazoyer  
Feldmann-Mazoyer, 1942; *Pleonosporium saccorhiza* in  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.
- SPERMOTHAMNION SNYDERAE Farlow  
Smith, 1944; Dawson, 1945E  
Bolas, Calif. to Punta Descanso, Baja Calif.
- GRIFFITHSIA MULTIRAMOSA (Setchell & Gardner) Taylor  
Dawson, 1944; 1945B  
San Diego, Calif.; Is. Angel de la Guarda, Gulf of Cali-  
fornia to San Jose del Cabo, Baja Calif.
- GRIFFITHSIA MULTIRAMOSA var. BALBOENSIS Hollenberg  
Hollenberg, 1945  
Balboa Harbor, Calif.
- GRIFFITHSIA MULTIRAMOSA var. MINOR Taylor  
Taylor, 1939  
Punta Gorda, Baja Calif.
- GRIFFITHSIA PACIFICA Kylin  
Smith 1944; Dawson, 1944; Taylor, 1945  
Puget Sound, Wash. to San Diego, Calif.; Bahia Te-  
poca; Guaymas, Sonora; Is. Clarion, Revilla Gigeda  
Arch. ?
- GRIFFITHSIA SCHOESBOEI Montagne  
Collins, 1913  
Vancouver Is., B. C. (?) (probably *G. pacifica*)
- GRIFFITHSIA TENUIS C. Agardh  
Dawson, 1944  
Punta Peñasco, Sonora to Is. Tiburón, Gulf of Calif.

- CERAMIUM AFFINE* Setchell & Gardner  
Dawson, 1944  
Is. Guadalupe, Baja Calif.; Is. Angel de la Guarda, Gulf of Calif.
- CERAMIUM CALIFORNICUM* J. Agardh  
Kylin, 1941  
Puget Sound, Wash. to southern Calif.
- CERAMIUM CAMOUII* Dawson  
Dawson, 1944  
Turner's Is., Gulf of Calif.
- CERAMIUM CAUDATUM* Setchell & Gardner  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif. to La Paz, Baja Calif.
- CERAMIUM CLARIONENSIS* Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Clarion, Revilla Gigedo Arch.
- CERAMIUM CODICOLA* J. Agardh  
Smith, 1944; Dawson, 1944; 1945E  
Sitka, Alaska to San Jose del Cabo, Baja Calif.
- CERAMIUM CODIOPHILA* Setchell & Gardner  
Setchell & Gardner, 1937; Dawson, 1945C  
La Jolla, Calif.; Is. Guadalupe, Baja Calif.
- CERAMIUM EATONIANUM* (Farlow) DeToni  
Smith, 1944; Taylor, 1945; Dawson, 1945E  
Coos Bay, Oregon to Is. Cedros, Baja Calif.
- CERAMIUM EQUISETOIDES* Dawson  
Dawson, 1944  
Bahía Tepoca, Sonora to Mazatlán, Sinaloa
- CERAMIUM EVERMANNII* Setchell & Gardner  
Setchell & Gardner, 1931; Dawson, 1945E  
Is. Guadalupe, Cabo Colnett, Baja Calif.
- CERAMIUM FASTIGIATUM* Harvey  
Taylor, 1939; 1945  
Cabo San Lucas, Baja Calif.; Bahía Petatlán, Guerrero
- CERAMIUM FIMBRIATUM* Setchell & Gardner  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif. to San Jose del Cabo, Baja Calif.

- CERAMIUM GARDNERI Kylin  
Smith, 1944  
Coos Bay, Oregon to Carmel, Calif.
- CERAMIUM GRACILLIMUM Griffiths & Harvey  
Dawson, 1944  
Is. Guadalupe, Baja Calif.; Turner's Is., Gulf of Calif.;  
San Jose del Cabo, Baja Calif.
- CERAMIUM HORRIDUM Setchell & Gardner  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif. to Guaymas, Sonora
- CERAMIUM ORNATUM Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.
- CERAMIUM PACIFICUM (Collins) Kylin  
Smith, 1944; Dawson, 1945E  
Vancouver Is., B. C. to Santa Barbara, Calif.; Punta  
Descanso, Baja Calif.
- CERAMIUM PANICULATUM Okamura  
Dawson, 1944  
Guaymas, Sonora
- CERAMIUM PERSONATUM Setchell & Gardner  
Setchell & Gardner, 1930; Taylor, 1945  
Is. Guadalupe, Baja Calif.; Port Parker, Costa Rica
- CERAMIUM PROCUMBENS Setchell & Gardner  
Dawson, 1944  
Bahía San Francisquito, Baja Calif.; Is. Partida, Gulf  
of Calif.
- CERAMIUM RUBRUM (Hudson) C. Agardh  
Setchell & Gardner, 1903; Collins, 1913  
Bering Sea to Puget Sound, Wash.
- CERAMIUM SERPENS Setchell & Gardner  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif. to La Paz, Baja  
Calif.
- CERAMIUM SINICOLA Setchell & Gardner  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif. to Guaymas, Sonora
- CERAMIUM SINICOLA var. INTERRUPTUM (Setchell & Gardner)  
Dawson  
Dawson, 1944  
Near La Paz, Baja Calif.



- CERAMIUM SINICOLA var. JOHNSTONII (Setchell & Gardner)  
Dawson  
Dawson, 1944  
Is. San Esteban; Is. San Pedro Martir, Gulf of Calif.
- CERAMIUM STRICTUM Harvey  
Collins, 1913  
Vancouver Is., B. C.
- CERAMIUM WASHINGTONIENSE Kylin  
Kylin, 1925  
San Juan Is., Wash.
- CERAMIUM ZACAE Setchell & Gardner  
Setchell & Gardner, 1937A; Dawson, 1945E  
Cabo Colnett; Bahía San Bartolomé, Baja Calif.
- CERAMIUM ZEBRINUM J. Agardh  
J. Agardh, 1894  
Santa Cruz, Calif.
- CENTROCERAS BELLUM Setchell & Gardner  
Dawson, 1944  
Guaymas, Sonora
- CENTROCERAS CLAVULATUM (C. Agardh) Montagne  
Smith, 1944; Dawson, 1944; 1945E; Taylor, 1945  
Santa Cruz, Calif. to Panamá
- MICROCLADIA BOREALIS Ruprecht  
Smith, 1944  
Unalaska, Alaska to San Simeon, Calif.
- MICROCLADIA CALIFORNICA Farlow  
Smith, 1944  
San Francisco to San Diego, Calif.
- MICROCLADIA COULTERI Harvey  
Smith, 1944; Dawson, 1945E  
Vancouver Is., B. C. to Punta Descanso, Baja Calif.
- PTILOTA ASPLENIODES (Turner) C. Agardh  
Setchell & Gardner, 1903  
Alaska to Puget Sound, Wash.
- PTILOTA CALIFORNICA Ruprecht  
Smith, 1944  
Cape Arago, Oregon to San Diego, Calif.
- PTILOTA Densa C. Agardh  
Smith, 1944; Dawson, 1945B  
Tomales Bay to San Diego, Calif.

PTILOTA FILICINA (Farlow) J. Agardh  
Smith, 1944  
Bering Sea to Carmel, Calif.

PTILOTA HYPNOIDES Harvey  
Smith, 1944  
Sitka, Alaska to San Luis Obispo Co., Calif.

PTILOTA PECTINATA (Gunner) Kjellman  
Setchell & Gardner, 1903; Kylin, 1925  
Bering Sea to Puget Sound, Wash.

PTILOTA TENUIS Kylin  
Kylin, 1925  
Friday Harbor, Wash.

Fam. **Delesseriaceae**

BRANCHIOGLOSSUM WOODII (J. Agardh) Kylin  
Smith, 1944; Dawson, 1944  
Vancouver Is., B. C.; Monterey to Santa Barbara, Calif.;  
Puerto Libertad to Guaymas, Sonora

HYPOGLOSSUM ABYSSICOLUM Taylor  
Taylor, 1945  
Is. Las Tres Marías, Nayarit; Puerto Culebra, Costa  
Rica

HYPOGLOSSUM ATTENUATUM Gardner  
Dawson, 1944  
Puerto Libertad to Guaymas, Sonora

HYPOGLOSSUM RETUSUM Dawson  
Dawson, 1945A  
Is. Cedros, Baja Calif.

MEMBRANOPTERA DENTICULATA (Montagne) Kylin  
Kylin, 1924; *Pteridium spinulosum* in Setchell & Gard-  
ner, 1903  
Bering Sea to Morzhovoi Bay, Alaska

MEMBRANOPTERA DIMORPHA Gardner  
Gardner, 1926; Sanborn, & Doty, 1946  
Queen Charlotte Is., B. C. to Coos Bay, Oregon

MEMBRANOPTERA MULTIRAMOSA Gardner  
Smith, 1944  
San Mateo Co. to Monterey, Calif.

- MEMBRANOPTERA PLATYPHYLLA (Setchell & Gardner) Kylin  
Kylin, 1925  
Puget Sound to Pleasant Beach, Wash.
- MEMBRANOPTERA SETCHELLII Gardner  
Gardner, 1926  
Morzhovoi Bay, Alaska
- MEMBRANOPTERA TENUIS Kylin  
Kylin, 1925  
Friday Harbor, Wash.
- MEMBRANOPTERA WEEKSIAE Setchell & Gardner  
Jao, 1937; Smith, 1944; Dawson, 1946  
Seattle, Wash.; San Francisco to San Diego, Calif.
- HOLMESIA CALIFORNICA (Dawson) Dawson  
Dawson, 1945D  
San Diego, Calif.
- DELESSERIA DECIPIENS J. Agardh  
Smith, 1944  
Prince William Sound, Alaska to Carmel, Calif.
- PLATYSIPHONIA CLEVELANDII (Farlow) Papenfuss  
Papenfuss, 1944  
Pacific Grove to San Diego, Calif.
- TAENIOMA PERPUSILLUM J. Agardh  
Dawson, 1944; Papenfuss, 1944  
Bahía Gonzaga to Bahía Agua Verde, Baja Calif.
- ERYTHROGLOSSUM CALIFORNICUM J. Agardh  
Smith, 1944  
Monterey to Santa Barbara, Calif.
- ERYTHROGLOSSUM INTERMEDIUM (J. Agardh) Kylin  
Kylin, 1944  
Esquimault, B. C.
- SORELLA DELICATULA (Gardner) Hollenberg  
Hollenberg, 1943  
San Pedro, Calif.
- SORELLA DELICATULA var. CALIFORNICA Hollenberg  
Hollenberg, 1943  
Southern Calif.
- SORELLA DIVARICATA (Setchell & Gardner) Hollenberg  
Hollenberg, 1943; *Erythroglossum divaricata* in Smith,  
1944  
Pacific Grove, Calif.

- SORELLA PINNATA Hollenberg  
Hollenberg, 1943; Dawson, 1944  
Southern Calif.; Is. Angel de la Guarda, Gulf of Calif.
- GRINNELLIA LANCEOLATA Dawson  
Dawson, 1944  
Punta Gorda, Cape district, Baja Calif.
- POLYNEURA LATISSIMA (Harvey) Kylin  
Smith, 1944; Dawson, 1945A  
Vancouver, B. C. to Is. Cedros, Baja Calif.
- POLYNEURELLA HANCOCKII Dawson  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif.
- NIENBURGIA ANDERSONIANA (J. Agardh) Kylin  
Smith, 1944; Taylor, 1945; Dawson, 1945E  
Santa Cruz, Calif. to Is. Cedros, Baja Calif.
- NIENBURGIA BOREALIS (Kylin) Kylin  
Kylin, 1935; *Heteronema boreale* in Kylin, 1925  
Friday Harbor, Wash.
- PHYCODYS AMBIGUA Gardner  
Gardner, 1927A  
Sitka, Alaska
- PHYCODYS BULLATA Gardner  
Gardner, 1927A  
Agattu Is. to Sitka, Alaska
- PHYCODYS RIGGII Gardner  
Gardner, 1927A  
Kukak Bay to Prince William Sound, Alaska
- PHYCODYS SETCHELLII Skottsberg  
Smith, 1944; Dawson, 1945A; 1945E  
Bolinas, Calif. to Is. Cedros, Baja Calif.
- POLYCORYNE GARDNERI Setchell  
Smith, 1944  
Marin Co.; Monterey Peninsula, Calif.
- POLYCORYNE PHYCODRICOLA Dawson  
Dawson, 1945A  
Is. Cedros, Baja Calif.
- ANISOCLADELLA PACIFICA Kylin  
Smith, 1944; Dawson, 1945E  
Santa Cruz, Calif. to Cabo Colnett, Baja Calif.
- MYRIOGRAMME DIVARICATA Dawson  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif.



- MYRIOGRAMME HOLLENBERGII Kylin  
Smith, 1944  
Monterey, Calif.
- MYRIOGRAMME PULCHRA Gardner  
Gardner, 1926  
Puget Sound to Tacoma, Wash.
- MYRIOGRAMME REPENS Hollenberg  
Hollenberg, 1945  
Point Vicente, Calif.
- MYRIOGRAMME SPECTABILIS (Eaton) Kylin  
Smith, 1944  
Santa Cruz to Redondo, Calif.
- ACROSORIUM UNCINATUM (J. Agardh) Kylin  
Kylin, 1941; Taylor, 1945; Dawson, 1945A; 1945E  
Southern Calif. to Bahía Santa María, Baja Calif.
- PANTONEURA BAERII (Ruprecht) Kylin  
Kylin, 1924  
Sitka, Alaska
- PANTONEURA JUERGENSE (J. Agardh) Kylin  
Kylin, 1924  
Bering Sea to Unalaska, Alaska
- NITOPHYLLUM MIRABILE Kylin  
Kylin, 1925  
Friday Harbor, Wash.
- HYMENENA FLABELLIGERA (J. Agardh) Kylin  
Smith, 1944  
Puget Sound, Wash. to Carmel, Calif.
- HYMENENA KYLINII Gardner  
Smith, 1944  
San Francisco to Monterey, Calif.
- HYMENENA MULTILOBA (J. Agardh) Kylin  
Smith, 1944  
Cape Mendocino to Carmel, Calif.
- HYMENENA SETCHELLII Gardner  
Smith, 1944  
Puget Sound, Wash. to Carmel, Calif.
- HYMENENA SMITHII Kylin  
Smith, 1944  
Carmel, Calif.
- CRYPTOPLEURA BREVIS Gardner  
Gardner, 1927  
Moss Beach, San Mateo Co., Calif.

CRYPTOPLEURA CORALLINARA (Nott) Gardner  
Gardner, 1927  
San Diego Co., Calif.

CRYPTOPLEURA CRISPA Kylin  
Kylin, 1941; Dawson, 1945E  
La Jolla, Calif.; Punta Descanso, Baja Calif.

CRYPTOPLEURA DICHOTOMA Gardner  
Gardner, 1927  
San Pedro, Calif.

CRYPTOPLEURA LOBULIFERA (J. Agardh) Kylin  
Smith, 1944; Taylor, 1945  
Tomales Bay to Morro Bay, Calif.; Bahía Santa María,  
Baja Calif.

CRYPTOPLEURA RUPRECHTIANA (J. Agardh) Kylin  
Kylin, 1925  
Sitka, Alaska to northern Calif.

CRYPTOPLEURA SPATULATA Gardner  
Gardner, 1927  
Santa Barbara; San Pedro, Calif.

CRYPTOPLEURA VIOLACEA (J. Agardh) Kylin  
Smith, 1944; Dawson, 1945B; 1945E  
Vancouver Is., B. C. to Cabo Colnett, Baja Calif.

BOTRYOGLOSSUM FARLOWIANUM (J. Agardh) G. DeToni  
Smith, 1944; Dawson, 1945B  
Puget Sound, Wash. to San Diego, Calif.

GONIMOPHYLLUM SKOTTSBERGII Setchell  
Smith, 1944; Dawson, 1945C  
Friday Harbor, Wash. to San Diego, Calif.

### Fam. **Dasyaceae**

DASYA CALIFORNICA Gardner  
Gardner, 1927A; Dawson, 1945B  
Southern Calif.

DASYA EASTWOODAE Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.

DASYA PEDICELLATA C. Agardh  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif. to Guaymas, So-  
nora

- DASYA STANFORDIANA Farlow  
Setchell & Gardner, 1930; Taylor, 1945  
Is. Guadalupe, Baja Calif.; Is. Las Tres Marías, Nayarit
- DASYOPSIS DENSA G. M. Smith  
Smith, 1944  
Santa Cruz to Carmel, Calif.
- DASYOPSIS PLUMOSA (Harvey & Bailey) Schmitz  
Kylin, 1925; Collins, 1913  
Vancouver Is., B. C. to northern Calif.
- POGONOPHORA CALIFORNICA J. Agardh  
Kylin, 1941; Dawson, 1945B; 1945E  
Santa Barbara, Calif. to Punta Descanso, Baja Calif.
- HETEROSIPHONIA ASYMMETRIA Hollenberg  
Hollenberg, 1945  
Corona del Mar, Calif.
- HETEROSIPHONIA DENSIUSCULA Kylin  
Kylin, 1925  
Friday Harbor, Wash.
- HETEROSIPHONIA ERECTA Gardner  
Gardner, 1927D; Setchell & Gardner, 1937A; Taylor,  
1945  
Santa Monica, Calif. to Bahía Santa María, Baja Calif.
- HETEROSIPHONIA LAXA Kylin  
Kylin, 1925  
Friday Harbor, Wash.
- HETEROSIPHONIA SINICOLA Setchell & Gardner  
Dawson, 1944  
Near La Paz, Baja Calif.

### Fam. Rhodomelaceae

- ORCASIA SENTICULOSA (Harvey) Kylin  
Kylin, 1941  
Orcas Is., Wash.; Monterey, Calif.
- POLYSIPHONIA ACUMINATA Gardner  
Hollenberg, 1942A; Smith, 1944  
Monterey to La Jolla, Calif.
- POLYSIPHONIA BIFURCATA Hollenberg  
Taylor, 1945  
Playa Blancas, Costa Rica

- POLYSIPHONIA BRODIAEI* (Dillwyn) Greville  
Hollenberg, 1944; Smith, 1944  
Sausalito to Santa Monica, Calif.
- POLYSIPHONIA COLLINSII* Hollenberg  
Hollenberg, 1944; Dawson, 1945E  
San Juan Co., Wash. to Cabo Colnett, Baja Calif.
- POLYSIPHONIA COLLINSII* var. *COMPACTA* Hollenberg  
Hollenberg, 1944  
Pacific Grove to southern Calif.
- POLYSIPHONIA COLLINSII* var. *DELIQUESCENS* Hollenberg  
Hollenberg, 1944  
Prince William Sound, Alaska to Friday Harbor, Wash.
- POLYSIPHONIA COLLINSII* var. *LUXURIANS* Hollenberg  
Hollenberg, 1944  
Cape Flattery; Friday Harbor, Wash.
- POLYSIPHONIA CONCINNA* Hollenberg  
Hollenberg, 1944  
Santa Catalina Is.; La Jolla, Calif.
- POLYSIPHONIA DECUSSATA* Hollenberg  
Hollenberg, 1942A  
Los Angeles Co. to San Diego Co., Calif.
- POLYSIPHONIA DICHOTOMA* Hollenberg  
Hollenberg, 1944  
Santa Cruz; San Diego, Calif.
- POLYSIPHONIA EASTWOODAE* Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.
- POLYSIPHONIA FLACCIDISSIMA* Hollenberg  
Hollenberg, 1942A  
Southern Calif.
- POLYSIPHONIA FLACCIDISSIMA* var. *SMITHII* Hollenberg  
Hollenberg, 1942A; Smith, 1944  
San Francisco to San Diego, Calif.
- POLYSIPHONIA GUADALUPENSIS* Setchell & Gardner  
Hollenberg, 1944  
Is. Guadalupe, Baja Calif.
- POLYSIPHONIA HANCOCKII* Dawson  
Dawson, 1944  
San Jose del Cabo, Baja Calif.



- POLYSIPHONIA HENDRYI* Gardner  
Smith, 1944; Hollenberg, 1944; Taylor, 1945  
Cape Arago, Oregon to Is. Cedros, Baja Calif.
- POLYSIPHONIA HOMOIA* Setchell & Gardner  
Hollenberg, 1944; Taylor, 1945  
Is. Guadalupe, Baja Calif.; Is. Socorro, Revilla Gigedo Arch.
- POLYSIPHONIA HOWEI* Hollenberg  
Taylor, 1945  
Bahía de Panamá, Panamá
- POLYSIPHONIA INCONSPICUA* Hollenberg  
Hollenberg, 1944  
Southern Calif.
- POLYSIPHONIA JOHNSTONII* Setchell & Gardner  
Hollenberg, 1944  
Is. Angel de la Guarda; Is. San Esteban, Gulf of Calif.
- POLYSIPHONIA MACOUNII* Hollenberg  
Hollenberg, 1942A  
Vancouver, B. C.
- POLYSIPHONIA MARCHANTAE* Setchell & Gardner  
Hollenberg, 1944  
La Paz, Baja Calif.
- POLYSIPHONIA MASONII* Setchell & Gardner  
Hollenberg, 1942A  
Is. Guadalupe, Baja Calif.
- POLYSIPHONIA MINUTISSIMA* Hollenberg  
Hollenberg, 1942A; Dawson, 1945B  
Santa Catalina Is., Calif. to Punta Banda, Baja Calif.
- POLYSIPHONIA PACIFICA* Hollenberg  
Hollenberg, 1942A; Smith, 1944  
Sitka, Alaska to Baja Calif.
- POLYSIPHONIA PACIFICA* var. *DELICATULA* Hollenberg  
Hollenberg, 1942A  
Central Calif. to Gulf of Calif.
- POLYSIPHONIA PACIFICA* var. *DETERMINATA* Hollenberg  
Hollenberg, 1942A  
Alaska to central Calif.
- POLYSIPHONIA PACIFICA* var. *DISTICHA* Hollenberg  
Hollenberg, 1942A  
Vancouver Is., B. C. to central Calif.

- POLYSIPHONIA PACIFICA var. GRACILIS Hollenberg  
Hollenberg, 1942A  
British Columbia to central Calif.
- POLYSIPHONIA PANICULATA Montagne  
Hollenberg, 1944; *Polysiphonia californica* in Smith,  
1944; Dawson, 1944  
Port Holmes, B. C. to Baja Calif.; Punta Peñasco, So-  
nora
- POLYSIPHONIA PUNGENS Hollenberg  
Hollenberg, 1942A  
Alaska to Vancouver, B. C.
- POLYSIPHONIA SIMPLEX Hollenberg  
Hollenberg, 1942A; Dawson, 1944  
Southern Calif.; Bahía Gonzaga to Bahía Agua Verde,  
Baja Calif.
- POLYSIPHONIA SNYDERAE Kylin  
Hollenberg, 1942A; Dawson, 1944  
Washington to central Mexico
- POLYSIPHONIA SNYDERAE var. HETEROMORPHA Hollenberg  
Hollenberg, 1942A  
Vancouver, B. C.; coast of Washington
- POLYSIPHONIA SNYDERAE var. INTRICATA Hollenberg  
Hollenberg, 1942A  
Guaymas, Sonora
- POLYSIPHONIA SONORENSIS Hollenberg  
Hollenberg, 1942A; Dawson, 1944  
Guaymas; Empalme, Sonora
- BRYOCLADIA DICTYURUS (J. Agardh) Taylor  
Taylor, 1945  
Bahía Petatlán, Guerrero
- RHODOSIPHONIA CALIFORNICA Hollenberg  
Hollenberg, 1943  
Santa Barbara to San Diego, Calif.
- LOPHOSIPHONIA MEXICANA Dawson  
Dawson, 1944  
Is. Angel de la Guarda, Gulf of Calif.; Is. Clarion,  
Revilla Gigedo Arch.
- LOPHOSIPHONIA OBSCURA (C. Agardh) Falkenberg  
Kylin, 1925  
Friday Harbor, Wash. ?
- LOPHOSIPHONIA VILLUM (J. Agardh) Setchell & Gardner  
Smith, 1944; Dawson, 1944; Taylor, 1945  
Pacific Grove, Calif. to Golfo Dulce, Costa Rica

- BROGNIARTELLA MUCRONATA (Harvey) Schmitz  
Taylor, 1945  
Is. María Magdalena, Nayarit
- VELEROA SUBULATA Dawson  
Dawson, 1944  
Bahía Tepoca, Sonora
- FALKENBERGIA HILLEBRANDTII (Bornet) Falkenberg  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.
- PTEROSIPHONIA ARCTICA Setchell & Gardner  
Kylin, 1925  
Alaska to Puget Sound, Wash.
- PTEROSIPHONIA BAILEYI (Harvey) Falkenberg  
Smith, 1944; Taylor, 1945; Dawson, 1945E  
Crescent City, Calif. to Is. Cedros, Baja Calif.
- PTEROSIPHONIA BIPINNATA (Postels & Ruprecht) Falkenberg  
Smith, 1944  
Shumagin Is., Alaska to San Pedro, Calif.
- PTEROSIPHONIA CALIFORNICA Kylin  
Kylin, 1941  
La Jolla, Calif.
- PTEROSIPHONIA DENDROIDEA (Montagne) Falkenberg  
Smith, 1944; Dawson, 1944; 1945E; Taylor, 1945  
Vancouver Is., B. C. to San Jose del Cabo, Baja Calif.
- PTEROSIPHONIA GRACILIS Kylin  
Kylin, 1925; Sanborn & Doty, 1946  
Friday Harbor, Wash. to Coos Bay, Oregon
- PTEROSIPHONIA PENNATA (Roth) Falkenberg  
Dawson, 1944  
Bahía Tepoca, Sonora
- PTEROSIPHONIA ROBUSTA Gardner  
Gardner, 1927D  
Northern to central Calif.
- PTEROSIPHONIA ROBUSTA var. DIVARICATA Gardner  
Gardner, 1927D  
Sitka, Alaska
- PTEROSIPHONIA ROBUSTA var. INERMIS Gardner  
Gardner, 1927D  
Neah Bay, Wash. to San Francisco Bay, Calif.
- STROMATOCARPUS GARDNERI Setchell  
Setchell, 1923; Dawson, 1945C  
Santa Monica to La Jolla, Calif.

- PTEROCHONDRIA PYGMAEA (Setchell) Hollenberg  
Hollenberg, 1942  
Southern Calif.
- PTEROCHONDRIA WOODII (Harvey) Hollenberg  
Smith, 1944; Dawson, 1945E  
Vancouver, B. C. to San Pedro, Calif.; Cabo Colnett,  
Baja Calif.
- HERPOSIPHONIA GRANDIS Kylin  
Kylin, 1925; Sanborn & Doty, 1946  
Friday Harbor, Wash. to Coos Bay, Oregon
- HERPOSIPHONIA PARVA Hollenberg  
Hollenberg, 1943; *Herposiphonia pygmaea* (by error) in  
Smith, 1944  
Monterey, Calif. to Punta Banda, Baja Calif.
- HERPOSIPHONIA RIGIDA Gardner  
Smith, 1944  
Puget Sound, Wash. to Santa Monica, Calif.
- HERPOSIPHONIA RIGIDA var. LAXA Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.
- HERPOSIPHONIA SECUNDA (C. Agardh) Ambronn  
Taylor, 1945  
Is. Jicarita, Panamá
- HERPOSIPHONIA SUBDISTICHA Okamura  
Dawson, 1944  
Is. San Esteban, Gulf of Calif.
- HERPOSIPHONIA TENELLA (C. Agardh) Nägeli  
Dawson, 1944; Taylor, 1945  
Kino, Sonora to Is. Las Tres Marías, Nayarit
- HERPOSIPHONIA VERTICILLATA (Harvey) Kylin  
Smith, 1944  
San Francisco, Calif. to Ensenada, Baja Calif.
- AMPLISIPHONIA PACIFICA Hollenberg  
Smith, 1944; Dawson, 1945C  
Moss Beach, San Mateo Co., Calif. to Bahía de Todos  
Santos, Baja Calif.
- JANTINELLA SINICOLA (Setchell & Gardner) Kylin  
Dawson, 1944; Setchell & Gardner, 1930  
La Pas, Baja Calif.; Is. Clarion, Revilla Gigedo Arch.
- JANTINELLA VERRUCAEFORMIS (Setchell & McFadden) Kylin  
Kylin, 1941  
San Pedro, Calif.



- CHONDRIA ACRORHIZOPHORA Setchell & Gardner  
Setchell & Gardner, 1924  
Near La Paz, Baja Calif.
- CHONDRIA ARCUATA Hollenberg  
Hollenberg, 1945  
Corona del Mar; Laguna Beach, Calif.
- CHONDRIA CALIFORNICA (Collins) Kylin  
Kylin, 1941; Taylor, 1945; Dawson, 1944; 1945E  
La Jolla, Calif. to Puerto Culebra, Costa Rica; Gulf of  
Calif.
- CHONDRIA CLARIONENSIS Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Clarion, Revilla Gigedo Arch.
- CHONDRIA CUSCUTOIDES Dawson  
Dawson, 1946  
La Jolla, Calif.
- CHONDRIA DASYPHYLLA (Woodward) C. Agardh  
Dawson, 1944; 1946  
Bahía Gonzaga, Baja Calif. to Guaymas, Sonora
- CHONDRIA DECIPIENS Kylin  
Smith, 1944; Dawson, 1945B  
Santa Cruz to La Jolla, Calif.
- CHONDRIA NIDIFICA Harvey  
Kylin, 1941; Dawson, 1945E  
La Jolla, Calif.; Cabo Colnett, Baja Calif.
- CHONDRIA OPPOSITICLADA Dawson  
Dawson, 1946  
La Jolla, Calif.
- CHONDRIA PACIFICA Setchell & Gardner  
Setchell & Gardner, 1937A  
Bahía San Bartholomé, Baja Calif.
- CHONDRIA PLATYCLADA Taylor  
Taylor, 1945  
Puerto Culebra, Costa Rica
- CHONDRIA SECUNDATA (J. Agardh) DeToni  
DeToni, 1903  
Santa Barbara, Calif.
- CHONDRIA TELMOENSIS Dawson  
Dawson, 1946  
La Jolla, Calif.; Cabo Colnett, Baja Calif.
- LAURENCIA CLARIONENSIS Setchell & Gardner  
Setchell & Gardner, 1937A; Taylor, 1945  
Is. Clarion, Revilla Gigedo Arch.

- LAURENCIA CRISPA Hollenberg  
Smith, 1944  
Monterey Peninsula, Calif.
- LAURENCIA DIEGOENSIS Dawson  
Dawson, 1944A; 1945E  
Santa Monica to Cabo Colnett, Baja Calif.
- LAURENCIA ESTEBANIANA Setchell & Gardner  
Dawson, 1944  
Smith Is.; Is. San Esteban, Gulf of Calif.
- LAURENCIA GARDNERI Hollenberg  
Smith, 1944  
Monterey Peninsula, Calif.
- LAURENCIA HANCOCKII Dawson  
Dawson, 1944  
Bahía Agua Verde, Baja Calif.
- LAURENCIA HUMILIS Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Clarion, Revilla Gigedo Arch.
- LAURENCIA INTRICATA Lamouroux  
Taylor, 1945  
Bahía Petatlán, Guerrero
- LAURENCIA JOHNSTONII Setchell & Gardner  
Dawson, 1944  
Bahía San Francisquito, Baja Calif.; Is. San Marcos;  
Is. Tiburón, Gulf of Calif.
- LAURENCIA MASONII Setchell & Gardner  
Setchell & Gardner, 1930  
Is. Guadalupe, Baja Calif.
- LAURENCIA OBTUSIUSCULA Setchell & Gardner  
Dawson, 1944  
Guaymas, Sonora to San Jose del Cabo, Baja Calif.
- LAURENCIA PACIFICA Kylin  
Smith, 1944; Dawson, 1945E  
Pacific Grove, Calif. to Punta Descanso, Baja Calif.
- LAURENCIA PANICULATA (C. Agardh) J. Agardh  
Dawson, 1944  
Bahía Gonzaga to Bahía Agua Verde, Baja Calif.
- LAURENCIA PAPILLOSA var. PACIFICA Setchell & Gardner  
Dawson, 1944; Setchell & Gardner, 1930  
Is. Guadalupe; La Paz, Baja Calif.; Is. Tiburón, Gulf of  
Calif.

- LAURENCIA PENINSULARIS Taylor  
Taylor, 1945  
Cabo San Lazaro, Baja Calif.
- LAURENCIA SCRIPPSSENSIS Dawson  
Dawson, 1944  
La Jolla, Calif.
- LAURENCIA SINICOLA Setchell & Gardner  
Dawson, 1944  
Is. San Marcos, Gulf of Calif.; Eureka, near La Paz,  
Baja Calif.
- LAURENCIA SNYDERAE Dawson  
Dawson, 1945  
La Jolla, Calif.
- LAURENCIA SPECTABILIS Postels & Ruprecht  
Smith, 1944; Dawson, 1944A  
Sitka, Alaska to Santa Monica, Calif.
- LAURENCIA SPLENDENS Hollenberg  
Smith, 1944; Dawson, 1945E  
Santa Cruz, Calif. to Cabo Colnett, Baja Calif.
- LAURENCIA SUBOPPOSITA (J. Agardh) Setchell  
Dawson, 1944A; Kylin, 1941  
La Jolla to San Diego, Calif.
- LAURENCIA VORAGINA Taylor  
Taylor, 1945  
White Friars Is., Guerrero
- RICARDIA SACCATA (J. Agardh) Kylin  
Smith, 1944  
Pacific Grove to La Jolla, Calif.; Is. Guadalupe, Baja  
Calif.
- JANCZEWSKIA GARDNERI Setchell & Guernsey  
Smith, 1944; Dawson, 1945B; 1945E  
Vancouver Is.. B. C. to Cabo Colnett, Baja Calif.
- JANCZEWSKIA LAPPACEA Setchell  
Kylin, 1941; Dawson, 1945E  
San Pedro, Calif. to Cabo Colnett, Baja Calif.
- JANCZEWSKIA MORIFORMIS Setchell  
Setchell, 1914  
Santa Monica, Calif.
- JANCZEWSKIA SOLMSII Setchell & Guernsey  
Setchell, 1914; Setchell & Gardner, 1930; Dawson, 1945B  
Redondo to San Diego, Calif.; Is. Guadalupe, Baja Calif.

- DIGENIA SIMPLEX (Wulfen) C. Agardh  
Dawson, 1944; Taylor, 1945  
Gulf of Calif. to Costa Rica
- BRYOTHAMNION PACIFICUM Taylor  
Taylor, 1945  
Is. María Magdalena, Nayarit
- RHODOMELA LARIX (Turner) C. Agardh  
Smith, 1944  
Bering Sea to San Luis Obispo Co., Calif.
- RHODOMELA LYCOPODIODES (Linnaeus) C. Agardh  
Setchell & Gardner, 1903; Collins, 1913  
Alaska to Vancouver, B. C.
- ODONTHALIA DENTATA (Linnaeus) Lyngbye  
Setchell & Gardner, 1903  
Alaska to Victoria, B. C.
- ODONTHALIA FLOCCOSA (Esper) Falkenberg  
Smith, 1944  
Puget Sound, Wash. to Santa Barbara, Calif.
- ODONTHALIA KAMTSCHATICA (Ruprecht) J. Agardh  
Kylin, 1925  
Alaska to Puget Sound, Wash.
- ODONTHALIA LYALLII (Harvey) J. Agardh  
Kylin, 1925  
Puget Sound, Wash.
- ODONTHALIA WASHINGTONIENSIS Kylin  
Kylin, 1925; Sanborn & Doty, 1946  
Victoria, B. C. to Coos Bay, Oregon
- BOSTRYCHIA CALLIPTERA (Montagne) Montagne  
Taylor, 1945  
Panamá
- BOSTRYCHIA RADICANS Montagne  
Dawson, 1944  
Guaymas, Sonora
- BOSTRYCHIA TENELLA J. Agardh  
Taylor, 1945  
Golfo Dulce, Costa Rica



## LITERATURE CITED

- Agardh, J. G. 1852. *Species genera et ordines algarum*. Vol. 2, Pt. 2, pp. 337-720. Lund.
1876. *Species genera et ordines algarum*. Vol. 3, Pt. 1. *Epicrisis systematis floridearum*. 724 pp. Lund.
1894. *Analecta algologica: observationes de speciebus minus cognitis earumque dispositione*, Continuatio II. *Actis Soc. Physiog. Lundensis*, 30: 1-98.
1899. *Analecta algologica: observationes de speciebus minus cognitis earumque dispositione*, Continuatio V. *Ibid.*, N. S. 10: 1-160.
- Collins, F. S. 1913. The marine algae of Vancouver Island. *Bull. Victoria Memorial Museum*, 1: 99-137.
- Connell, R. 1928. Notes on marine algae collected at Departure Bay, B. C. *Can. Field Nat.*, 42(4):99-100.
- Dawson, E. Y. 1941. A review of the genus *Rhodymenia* with descriptions of new species. *Allan Hancock Pacific Exped.*, 3: 123-180. 13 pls.
1944. The marine algae of the Gulf of California. *Ibid.*, 3: 189-454. 47 pls.
- 1944a. Some new Laurenciae from southern California. *Madroño*, 7(8):233-240. 3 pls.
- 1944b. A new parasitic red alga from southern California. *Bull. Torrey Bot. Club*, 77(6): 655-657. 1 pl.
1945. Notes on Pacific Coast marine algae, I. *Bull. So. Calif. Acad. Sci.*, 43(3): 95-101. 1 pl.
- 1945a. Some new and unreported sublittoral algae from Cerros Island,\* Mexico. *Ibid.*, 43(3): 102-112. 3 pls.
- 1945b. An annotated list of the marine algae and marine grasses of San Diego County, California. *Occas. Papers San Diego Soc. Nat. Hist.*, (7): 1-87.
- 1945c. Notes on Pacific Coast marine algae, II. *Bull. So. Calif. Acad. Sci.*, 44(1): 22-27. 2 pls.
- 1945d. Notes on Pacific Coast marine algae, III. *Madroño*, 8(3): 93-97. 1 pl.
- 1945e. Marine algae associated with upwelling along the northwestern coast of Baja California, Mexico. *Bull. So. Calif. Acad. Sci.*, 44(2): 57-71. 3 pls.
1946. New and unreported marine algae from southern California and northwestern Mexico. *Ibid.*, 44(3): 75-91. 20 figs.
- De Toni, G. B. 1897-1924. *Sylloge algarum omnium hucusque cognitatarum*. 4 (*Sylloge Floridicarum*) (1): I-XX, I-LXI, 1-388. 1897; (2): 387-776. 1900; (3) 775-1522. 1903; (4): 1523-1973. 1905; 6 (*Sylloge Floridearum*) (5 *Addimenta*): I-XI, 1-767. 1924. Patavii.
- De Toni, J. 1935. *Noterelle di nomenclature algologica*. V. *L'Antithamnion tenuissimum Gardner 1927*. Published by the author. Brescia.
1936. *Noterelle di nomenclature algologica*, VII. *Primo elenco di Floridee omonime*. Published by the author. Brescia.
- Feldmann, J. et G. 1942. Recherches sur les Bonnemaisoniacées et leur alternance de generations. *Ann. des Sci. Nat., Bot.*, ser. 11, 3: 75-175. 26 figs.

\*According to Mexican authorities the spelling should be "Cedros."

- Feldmann-Mazoyer, G. 1942. A propos de quelques Spermothamnion a polysporanges. *Bull. Soc. d'Hist. Nat. de l'Afrique Nord*, 33: 15-18.
- Foslie, M. H. 1929. *Contributions to a monograph of the Lithothamnion*. 60 pp. 75 pls. Trondhjem.
- Gardner, N. L. 1926. New Rhodophyceae from the Pacific Coast of North America. I. *Univ. Calif. Publ. Bot.*, 13: 205-226. 7 pls.
1927. New Rhodophyceae from the Pacific Coast of North America. II. *Ibid.*, 13:235-272. 12 pls.
- 1927a. New Rhodophyceae from the Pacific Coast of North America. III. *Ibid.*, 13:333-368. 13 pls.
- 1927b. New Rhodophyceae from the Pacific Coast of North America. IV. *Ibid.*, 13:373-402. 11 pls.
- 1927c. New Rhodophyceae from the Pacific Coast of North America. V. *Ibid.*, 13:403-434. 10 pls.
- 1927d. New Rhodophyceae from the Pacific Coast of North America. VI. *Ibid.*, 14:99-138. 17 pls.
- 1927e. New species of Gelidium on the Pacific Coast of North America. *Ibid.*, 13:273-318. 19 pls.
1940. New species of Melanophyceae from the Pacific Coast of North America. *Ibid.*, 19:267-286. 6 pls.
- Harvey, W. H. 1853. Nereis Boreali-Americana. Part II. Rhodospermae. *Smithsonian Contr. to Knowledge*, 3(5): 1-258. 24 pls.
- Hollenberg, G. J. 1940. New marine algae from southern California. I. *Amer. Journ. Bot.*, 27(10):868-877. 17 figs.
1941. Culture studies of marine algae. II. Hapterophycus canaliculatus S. & G. *Ibid.*, 28(8):676-683. 16 figs.
1942. Phycological notes—I. *Bull. Torrey Bot. Club*, 69: 528-538. 15 figs.
- 1942a. An account of the species of Polysiphonia on the Pacific Coast of North America. I. Oligosiphonia. *Amer. Journ. Bot.*, 29:772-785. 21 figs.
1943. New marine algae from southern California. II. *Ibid.*, 30:-571-579. 16 figs.
1944. An account of the species of Polysiphonia on the Pacific Coast of North America. II. Polysiphonia. *Ibid.*, 31:474-483. 12 figs.
1945. New marine algae from southern California. III. *Ibid.*, 32:-447-451. 9 figs.
- Jao, C. 1937. New marine algae from Washington. *Pap. Mich. Acad. Sci., Arts and Letters*, 22:99-116. 3 pls.
- Kylin, H. 1924. Studien über die Delesseriaceen. *Lunds Univ. Årsskr.*, N. F., 20(6):1-111. 80 figs.
1925. The marine algae in the vicinity of the biological station at Friday Harbor, Wash. *Ibid.*, 21(9):1-87. 47 figs.
1932. Die Florideenordnung Gigartinales. *Ibid.*, 28(8): 1-88. 22 figs. 28 pls.
1935. Zur Nomenclature einigen Delesseriaceen. *Förhandl. Kgl. Fysiografiska Sällsk. i Lund*, 5(23):1-5.
1940. Die Phaeophyceenordnung Chordariales. *Lunds Univ. Årsskr.*, N. F., 36(9):1-67. 30 figs. 8 pls.
1941. Californische Rhodophyceen. *Ibid.*, 37(2):1-51. 7 figs. 13 pls.
- Lemoine, Mme. P. 1929. Les Corallinacées de l'Archipel des Galapagos et du Golfe de Panama. *Arch. du Mus. d'Hist. Nat.* VI, 4: 37-88. 35 figs., 4 pls.

- Levring, T. 1940. Die Phaeophyceengattungen Chlanidophora, Distromium und Syringoderma. *Kgl. Fysiografiska Sällsk. i Lund*, 10(20):1-11.
- Manza, A. V. 1937. Some north Pacific species of articulated corallines. *Proc. Nat. Acad. Sci. of U. S. A.*, 23:561-567.
1940. A revision of the genera of articulated corallines. *Philippine Journ. Sci.*, 71:239-316. 20 pls.
- Papenfuss, G. 1943. Notes on algal nomenclature. III. Miscellaneous species of Chlorophyceae, Phaeophyceae and Rhodophyceae. *Farlowia*, 1(3):337-346.
1944. Structure and taxonomy of Taenioma, including a discussion on the phylogeny of the Ceramiales. *Madroño*, 7(7):193-214. 2 pls. 1 fig.
- 1944a. Marine algae of the Monterey Peninsula. A review. *Ibid.*, 7(7):226-231.
1945. Review of the Acrochaetium-Rhodochorton complex of the red algae. *Univ. Calif. Publ. Bot.*, 18(14):299-334.
- Sanborn, E. I. and M. S. Doty. 1946. The marine algae of the Coos Bay-Cape Arago Region. *Oregon State Monographs. Studies in Botany* (7): in press.
- Saunders, De A. 1901. The algae. Papers from the Harriman Alaska Exped. XXV. *Proceed. Wash. Acad. Sci.* 3:391-486. 20 pls.
- Schmidt, O. C. 1935. Pringsheimia Reinke jetzt Pringsheimiella v. Hoehn. *Hedwigia*, 74:29.
- Setchell, W. A. 1906. A revision of the genus Constantinea. *Nuova Notarisia*, 17:162-173.
1912. Algae novae et minus cognitae. *Univ. Calif. Publ. Bot.*, 4:229-268. 7 pls.
1914. Parasitic Florideae. I. *Ibid.*, 6:1-34. 6 pls.
- 1914a. The Scinaia assemblage. *Ibid.*, 6:79-152. 7 pls.
1923. Parasitic Florideae. II. *Ibid.*, 10:393-396.
- 1923a. A revision of the west North American species of Callophyllis. *Ibid.*, 10:397-401.
1933. Some early algal confusions. II. *Ibid.*, 17:187-254. 20 pls.
1937. Report on the Sargassums. The Templeton Crocker Expedition of the California Academy of Sciences, 1932, no. 34. *Proc. Calif. Acad. Sci.* iv, 22(5): 127-158. 6 pls.
1940. Fucus cordatus Turner. *Proceed. Nat. Acad. Sci. of U. S. A.*, 26(11):643-651. 2 figs.
- Setchell, W. A. and E. Y. Dawson. 1941. Binghamia, the alga, vs. Binghamia, the cactus. *Proc. Nat. Acad. Sci. of U. S. A.*, 27(8):376-381. 1 pl.
- Setchell, W. A. and N. L. Gardner. 1903. Algae of Northwestern America. *Univ. Calif. Publ. Bot.* 1:165-418. 21 pls.
1920. The marine algae of the Pacific Coast of North America. Part 2, Chlorophyceae. *Ibid.*, 8:139-381. 25 pls.
1924. The marine algae. Expedition of the California Academy of Sciences to the Gulf of California in 1921. *Proc. Calif. Acad. Sci.* iv, 12:695-949. 77 pls.
1925. The marine algae of the Pacific Coast of North America, Part 3, Melanophyceae. *Univ. Calif. Publ. Bot.*, 8:383-898. 20 pls.
1930. Marine algae of the Revillagigedo Islands Expedition of 1925. *Proc. Calif. Acad. Sci.* iv, 19:109-215. 15 pls.



1933. A preliminary survey of Gigartina, with special reference to its Pacific North American species. *Univ. Calif. Publ. Bot.*, 17:255-340. 20 pls.
1937. Iridophycus in the northern hemisphere. *Proc. Nat. Acad. of Sci. of U. S. A.*, 23:169-174.
- 1937a. A preliminary report on the algae. The Templeton Crocker Expedition of the California Academy of Sciences. iv. 21:65-98. 1 fig. 23 pls.
- Setchell, W. A. and L. R. Mason. 1943. New or little-known crustose corallines of Pacific North America. *Proc. Nat. Acad. of Sci. of U. S. A.*, 29:92-97.
- 1943a. Goniolithon and Neogoniolithon: two genera of crustaceous coralline algae. *Ibid.*, 29:87-92.
- Smith, G. M. 1944. *Marine algae of the Monterey Peninsula, California*. ix+622 pp., 98 pls. Stanford Univ.
- Taylor, W. R. 1939. Algae collected on the Presidential cruise of 1938. *Smithsonian Contr. Knowl., Miscell. Ser.* 98(9):1-18. 2 pls. 14 figs.
1945. Pacific marine algae of the Allan Hancock Expeditions to the Galapagos Islands. *Allan Hancock Pac. Exped.* 12:1-528. 100 pls. 3 figs.
- Yendo, K. 1902. Corallinae verae of Port Renfrew. *Minnesota Bot. Stud.* 2(40):711-720. 6 pls.
- Zeh, W. 1912. Neue Arten der Gattung Liagora. *Berlin Notizbl. bot. Garten*, 5(49):268-273.



# INDEX

Synonyms are in *italics*

|                | PAGE |                     | PAGE |
|----------------|------|---------------------|------|
| Acetabularia   |      | tenuifolia          | 42   |
| parvula        | 15   | f. typica           | 42   |
| v. americana   | 15   | f. amplior          | 42   |
| Acrochaetium   |      | valida              | 42   |
| Amphiroae      | 52   | f. longipes         | 42   |
| angustum       | 52   | Amphiroa            |      |
| Bornetii       | 52   | annulata            | 70   |
| coccineum      | 52   | compressa           |      |
| Daviesii       | 52   | v. tenuis           | 70   |
| densum         | 52   | Crosslandii         | 70   |
| Desmarestiae   | 52   | dimorpha            | 70   |
| Dictyotae      | 52   | foliacea            | 71   |
| Eastwoodae     | 53   | fragilissima        | 71   |
| elegans        | 53   | franciscana         | 71   |
| Erythrophyllum | 53   | mexicana            | 71   |
| Gymnogongri    | 53   | minutissima         | 71   |
| Hancockii      | 53   | peninsularis        | 71   |
| Macounii       | 53   | polymorpha          | 71   |
| magnificum     | 53   | pusilla             | 71   |
| obscurum       | 53   | rigida              | 71   |
| pacificum      | 53   | zonata              | 71   |
| penetrale      | 53   | Amplisiphonia       |      |
| plumosum       | 53   | pacifica            | 112  |
| rhizoideum     | 53   | Anisocladella       |      |
| v. patens      | 53   | pacifica            | 104  |
| simplex        | 54   | Antithamnion        |      |
| sinicolum      | 54   | alternans           | 94   |
| subimmersum    | 54   | asymmetricum        | 94   |
| tenuissimum    | 54   | Baylesiae           | 94   |
| Thurettii      |      | defectum            | 94   |
| v. agama       | 54   | dendroideum         | 94   |
| vagum          | 54   | densiusculum        | 94   |
| variabile      | 54   | floccosum           | 94   |
| Acrosorium     |      | Gardneri            | 94   |
| uncinatum      | 105  | glanduliferum       | 94   |
| Aegira         |      | Kylinii             | 94   |
| virescens      | 32   | nigricans           | 94   |
| Aeodes         |      | occidentale         | 94   |
| Gardneri       | 73   | pacificum           | 94   |
| Agardhiella    |      | pulchellum          | 95   |
| Coulteri       | 79   | pygmaeum            | 95   |
| mexicana       | 79   | secundatum          | 95   |
| tenera         | 79   | setaceum            | 95   |
| Agarum         |      | simulans            | 95   |
| cribrosum      | 40   | sublittorale        | 95   |
| fimbriatum     | 41   | subulatum           | 95   |
| Ahnfeltia      |      | <i>tenuissimum</i>  | 94   |
| gigartinoides  | 84   | uncinatum           | 95   |
| plicata        | 84   | Archeolithothamnium |      |
| Alaria         |      | Howei               | 64   |
| dolichorhachis | 42   | Arthrothamnus       |      |
| fistulosa      | 42   | bifidus             | 41   |
| f. platyphylla | 42   | Asparagopsis        |      |
| f. stenophylla | 42   | <i>hamifera</i>     | 58   |
| lanceolata     | 42   | Sanfordiana         | 58   |
| marginata      | 42   | f. amplissima       | 58   |
| nana           | 42   | <i>taxiformis</i>   | 58   |
| Pylaii         | 42   |                     |      |

|                  | PAGE |                 | PAGE |
|------------------|------|-----------------|------|
| Asymmetria       |      | regenerans      | 71   |
| expansa          | 63   | Schmittii       | 72   |
| Audouinella      |      | Setchelliae     | 72   |
| membranaceum     | 55   | Callithamnion   |      |
| Bangia           |      | acutum          | 96   |
| fuscopurpurea    | 50   | arborescens     | 96   |
| maxima           | 50   | biseriatum      | 96   |
| tenuis           | 50   | bisporum        | 96   |
| vermicularis     | 50   | breviramosum    | 96   |
| Baylesia         |      | byssoides       | 96   |
| plumosa          | 61   | californicum    | 96   |
| Besa             |      | endovaginum     | 96   |
| papillaeformis   | 89   | laxum           | 96   |
| Binghamiella     |      | pacificum       | 96   |
| californica      | 92   | Pikeanum        | 96   |
| Forkii           | 92   | v. pacificum    | 96   |
| Blossevillea     |      | ramosissimum    | 97   |
| Brandegeei       | 47   | rupicolum       | 97   |
| Bonnemaisonia    |      | soccoriense     | 97   |
| californica      | 57   | squarrulosum    | 97   |
| geniculata       | 57   | veleroae        | 97   |
| hamifera         | 58   | Callocolax      |      |
| Boodlea          |      | fungiformis     | 78   |
| composita        | 15   | globulosis      | 78   |
| Bossea           |      | neglectus       | 78   |
| angustata        | 69   | Callophyllis    |      |
| californica      | 69   | acrocarpa       | 76   |
| corymbifera      | 69   | crassifolia     | 76   |
| dichotoma        | 69   | crenulata       | 76   |
| frondifera       | 69   | dissecta        | 76   |
| Gardneri         | 69   | edentata        | 76   |
| interrupta       | 70   | filicina        | 77   |
| Orbigniana       | 70   | flabellulata    | 77   |
| pachyclada       | 70   | Gardneri        | 77   |
| plumosa          | 70   | heanophylla     | 77   |
| Bostrychia       |      | Johnstonii      | 77   |
| Calliptera       | 116  | marginifructa   | 77   |
| radicans         | 116  | megalocarpa     | 77   |
| tenella          | 116  | obtusifolia     | 77   |
| Botryocladia     |      | odontalioides   | 77   |
| Hancockii        | 90   | pinnata         | 77   |
| pseudodichotoma  | 90   | plumosa         | 77   |
| v. datilensis    | 90   | stenophylla     | 77   |
| uvarioides       | 90   | Thompsonii      | 77   |
| Botryoglossum    |      | violacea        | 78   |
| Farlowianum      | 106  | Caulerpa        |      |
| Branchioglossum  |      | peltata         | 17   |
| Woodii           | 102  | pinnata         |      |
| Brogniartella    |      | f. pectinata    | 17   |
| mucronata        | 111  | racemosa        |      |
| Bryocladia       |      | v. chemnitzia   | 17   |
| dictyurus        | 110  | v. clavifera    |      |
| Bryopsis         |      | f. macrophysa   | 17   |
| corticulans      | 16   | racemosa        |      |
| galapagensis     | 16   | v. laeteirens   |      |
| hypnoides        | 16   | f. cylindraceae | 18   |
| pennatula        | 16   | f. typica       | 18   |
| plumosa          | 16   | v. occidentalis | 18   |
| v. pennata       | 16   | v. uvifera      | 18   |
| Bryothamnion     |      | sertularioides  | 18   |
| pacificum        | 116  | Vanbosseae      | 18   |
| Bulbocoleon      |      | Centroceras     |      |
| piliferum        | 4    | bellum          | 101  |
| Calliarthron     |      | clavulatum      | 101  |
| cheilosporioides | 71   | Ceramium        |      |
| pinnulatum       | 71   | affine          | 99   |
|                  |      | californicum    | 99   |
|                  |      | Camouii         | 99   |

|                       | PAGE |                         | PAGE |
|-----------------------|------|-------------------------|------|
| Ceramium              |      | Chondus                 |      |
| caudatum .....        | 99   | crispus .....           | 85   |
| clarionensis .....    | 99   | Chorda                  |      |
| codicola .....        | 99   | Filum .....             | 39   |
| codiophila .....      | 99   | Chordaria               |      |
| Eatonianum .....      | 99   | dissessa .....          | 33   |
| equisetoides .....    | 99   | flagelliformis .....    | 33   |
| Evermannii .....      | 99   | gracilis .....          | 33   |
| fastigiatum .....     | 99   | Choreocolax             |      |
| fimbriatum .....      | 99   | Polysiphoniae .....     | 78   |
| Gardneri .....        | 100  | Choreonema              |      |
| gracillimum .....     | 100  | Thureti .....           | 64   |
| horridum .....        | 100  | Chromastrum             |      |
| ornatum .....         | 100  | arcuatum .....          | 54   |
| pacificum .....       | 100  | hirsutum .....          | 54   |
| paniculatum .....     | 100  | implicatum .....        | 54   |
| personatum .....      | 100  | microscopicum .....     | 54   |
| procumbens .....      | 100  | moniliforme .....       | 54   |
| rubrum .....          | 100  | Porphyrae .....         | 55   |
| serpens .....         | 100  | Cladophora              |      |
| sinicola .....        | 100  | albida .....            | 12   |
| v. interruptum .....  | 100  | amphibia .....          | 12   |
| v. Johnstonii .....   | 101  | Bertolonii              |      |
| strictum .....        | 101  | v. hamosa .....         | 12   |
| washingtoniense ..... | 101  | delicatula .....        | 12   |
| zacae .....           | 101  | flexuosa .....          | 12   |
| zebrinum .....        | 101  | glaucescens .....       | 12   |
| Chaetomorpha          |      | gracilis .....          | 12   |
| aerea .....           | 11   | f. expansa .....        | 12   |
| antennina .....       | 11   | graminea .....          | 12   |
| californica .....     | 11   | hemisphaerica .....     | 12   |
| cannabina .....       | 11   | hesperia .....          | 13   |
| clavata .....         | 11   | Hutchinsiae .....       | 13   |
| crassa .....          | 11   | v. distans .....        | 13   |
| melangonium .....     | 12   | laetevirens .....       | 13   |
| tenuissima .....      | 12   | MacDougalii .....       | 13   |
| torta .....           | 12   | microcladioides .....   | 13   |
| Champia               |      | f. stricta .....        | 13   |
| caespitosa .....      | 93   | ovoidea .....           | 13   |
| disticha .....        | 93   | panamensis .....        | 13   |
| parvula .....         | 93   | prolifera .....         | 13   |
| Chlanidophora         |      | Rudolphiana .....       | 13   |
| abyssicola .....      | 29   | f. eramosa .....        | 13   |
| Chlorochytrium        |      | Stimpsonii .....        | 13   |
| inclusum .....        | 15   | tiburonensis .....      | 13   |
| Porphyrae .....       | 15   | trichotoma .....        | 14   |
| Schmitzii .....       | 16   | f. elongata .....       | 14   |
| Chlorodesmis          |      | Cladophoropsis          |      |
| comosa .....          | 19   | robusta .....           | 15   |
| mexicana .....        | 19   | Clarionea               |      |
| Chnoospora            |      | Masonii .....           | 78   |
| pacifica .....        | 38   | Clathromorphum          |      |
| pannosa .....         | 38   | compactum               |      |
| Chondria              |      | f. circumscriptum ..... | 65   |
| acrorhizophora .....  | 113  | Codiolum                |      |
| arcuata .....         | 113  | gregarium .....         | 16   |
| californica .....     | 113  | Petrocelidis .....      | 16   |
| clarionensis .....    | 113  | pusillum                |      |
| cuscutoides .....     | 113  | f. subsessile .....     | 16   |
| dasyphylla .....      | 113  | Codium                  |      |
| decipiens .....       | 113  | amplivesiculatum .....  | 18   |
| nidifica .....        | 113  | anastomosans .....      | 18   |
| oppositiclada .....   | 113  | conjunctum .....        | 18   |
| pacifica .....        | 113  | cuneatum .....          | 18   |
| platyclada .....      | 113  | decorticatum .....      | 18   |
| secundata .....       | 113  | fernandezianum .....    | 19   |
| telmoensis .....      | 113  | fragile .....           | 19   |
|                       |      | isabelae .....          | 19   |



|                         | PAGE |                        | PAGE |
|-------------------------|------|------------------------|------|
| Codium                  |      | Cruoriella             |      |
| longiramosum .....      | 19   | Dubyi .....            | 63   |
| Macdougalii .....       | 19   | Cryptonemia            |      |
| Palmeri .....           | 19   | borealis .....         | 73   |
| Setchellii .....        | 19   | decolorata .....       | 73   |
| simulans .....          | 19   | obovata .....          | 73   |
| Ritteri .....           | 19   | ovalifolia .....       | 73   |
| Coeloseira              |      | Cryptopleura           |      |
| compressa .....         | 93   | brevis .....           | 105  |
| parva .....             | 93   | corallinara .....      | 106  |
| Coilodesme              |      | crispa .....           | 106  |
| bulligera .....         | 37   | dichotoma .....        | 106  |
| californica .....       | 37   | lobulifera .....       | 106  |
| corrugata .....         | 37   | Ruprechtiana .....     | 106  |
| Cystoseirae .....       | 37   | spatulata .....        | 106  |
| polygnampta .....       | 38   | violacea .....         | 106  |
| rigida .....            | 38   | Cryptosiphonia         |      |
| sitchensis .....        | 38   | Woodii .....           | 60   |
| Collinsiella            |      | Cumagloia              |      |
| tuberculata .....       | 3    | Andersonii .....       | 56   |
| Colpomenia              |      | Cutleria               |      |
| ramosa .....            | 37   | Hancockii .....        | 27   |
| sinuosa .....           | 37   | Cyamathere             |      |
| f. deformans .....      | 37   | triplicata .....       | 40   |
| f. expansa .....        | 37   | Cystophyllum           |      |
| f. tuberculata .....    | 37   | geminatum .....        | 47   |
| Compsonema              |      | Cystoseira             |      |
| coniferum .....         | 31   | neglecta .....         | 47   |
| dubium .....            | 31   | osmundacea .....       | 47   |
| fasciculatum .....      | 31   | Setchellii .....       | 47   |
| fructuosum .....        | 31   |                        |      |
| immixtum .....          | 31   | Dasya                  |      |
| intricatum .....        | 32   | californica .....      | 106  |
| myrionematoides .....   | 32   | Eastwoodae .....       | 106  |
| nummuloides .....       | 32   | pedicellata .....      | 106  |
| pusillum .....          | 32   | Stanfordiana .....     | 107  |
| ramulosum .....         | 32   | Dasyopsis              |      |
| secundum .....          | 32   | densa .....            | 107  |
| serpens .....           | 32   | plumosa .....          | 107  |
| sessile .....           | 32   | Delesseria             |      |
| speciosum               |      | decipiens .....        | 103  |
| f. piliferum .....      | 32   | Derbesia               |      |
| sporangiferum .....     | 32   | Lamourouxii .....      | 17   |
| streblonematoides ..... | 32   | marina .....           | 17   |
| tenue .....             | 32   | pacifica .....         | 17   |
| Conchocelis             |      | vaucheriaeformis ..... | 17   |
| rosea .....             | 55   | Dermatolithon          |      |
| Constantinea            |      | saxicolum .....        | 66   |
| rosa marina .....       | 62   | veleroae .....         | 66   |
| simplex .....           | 62   | Dermocorynus           |      |
| subulifera .....        | 62   | occidentalis .....     | 72   |
| Corallina               |      | Desmarestia            |      |
| chilensis .....         | 68   | farcta .....           | 33   |
| cubensis .....          | 68   | filamentosa .....      | 34   |
| gracilis .....          | 68   | foliacea .....         | 34   |
| v. densa .....          | 68   | herbacea .....         | 34   |
| v. lycopodioides .....  | 69   | intermedia .....       | 34   |
| officinalis             |      | Jordanii .....         | 34   |
| f. pilulifera .....     | 69   | latifrons .....        | 34   |
| pilulifera .....        | 69   | latissima .....        | 34   |
| subulata .....          | 69   | ligulata .....         | 34   |
| vancouveriensis .....   | 69   | linearis .....         | 34   |
| Corallopsis             |      | media .....            | 34   |
| salicornia .....        | 81   | v. tenuis .....        | 34   |
| Costaria                |      | mexicana .....         | 34   |
| costata .....           | 40   | munda .....            | 34   |
| Crouania                |      | pacifica .....         | 35   |
| attenuata .....         | 97   | viridis .....          | 35   |



|                      | PAGE |                 | PAGE |
|----------------------|------|-----------------|------|
| Dicranema            |      | Hancockii       | 22   |
| rosaliae             | 83   | hemisphericus   | 22   |
| Dictyoneuropsis      |      | f. minor        | 22   |
| reticulata           | 41   | isopodicola     | 22   |
| Dictyoneurum         |      | luteolus        | 22   |
| californicum         | 41   | Mesogloiae      | 23   |
| Dictyopteris         |      | Mitchellae      | 23   |
| delicatula           | 28   | mucronatus      | 23   |
| Johnstonei           | 29   | oviger          | 23   |
| zonarioides          | 29   | Parksii         | 23   |
| Dictyosiphon         |      | Saundersii      | 23   |
| foeniculaceus        | 38   | siliculosus     | 23   |
| hippuroides          | 38   | f. subulatus    | 23   |
| hispidus             | 39   | simulans        | 23   |
| sinicola             | 39   | socialis        | 23   |
| tenuis               | 39   | sonorensis      | 23   |
| Dictyosphaeria       |      | Taoniae         | 23   |
| australis            | 14   | terminalis      | 23   |
| Versluysi            | 15   | tomentosus      | 24   |
| Dictyota             |      | variabilis      | 24   |
| Binghamiae           | 28   | Egregia         |      |
| concrescens          | 28   | laevigata       | 43   |
| crenulata            | 28   | Menziesii       | 43   |
| cribrosa             | 28   | Eisenia         |      |
| divaricata           | 28   | arborea         | 42   |
| flabellata           | 28   | desmarestioides | 43   |
| hesperia             | 28   | Masonii         | 43   |
| Johnstonii           | 28   | Elachistea      |      |
| Masonii              | 28   | fucicola        | 26   |
| Vivesii              | 28   | lubrica         | 26   |
| Digenia              |      | Endarachne      |      |
| simplex              | 116  | Binghamiae      | 36   |
| Dilsea               |      | Endocladia      |      |
| californica          | 61   | muricata        | 62   |
| Dumontia             |      | Endophyton      |      |
| filiformis           | 61   | ramosum         | 5    |
| Dunaliella           |      | Enteromorpha    |      |
| salina               | 3    | acanthophora    | 7    |
| Ectocarpus           |      | clathrata       | 7    |
| acuminatus           | 20   | crinita         | 7    |
| acutus               | 20   | compressa       | 7    |
| affinis              | 20   | erecta          | 7    |
| breviarticulatus     | 20   | flexuosa        | 7    |
| Bryantii             | 20   | groenlandica    | 7    |
| chantransioides      | 20   | intestinalis    | 7    |
| chitonicola          | 21   | f. clavata      | 8    |
| commensalis          | 21   | f. cylindracea  | 7    |
| confervoides         | 21   | f. maxima       | 7    |
| f. parvus            | 21   | lingulata       | 8    |
| f. pygmaeus          | 21   | marginata       | 8    |
| f. typicus           | 21   | micrococca      | 8    |
| f. <i>variabilis</i> | 24   | f. subsalsa     | 8    |
| corticulatus         | 21   | minima          | 8    |
| cylindricus          | 21   | plumosa         | 8    |
| f. codiophilus       | 21   | prolifera       | 8    |
| Duchassaingianus     | 21   | salina          |      |
| ellipticus           | 21   | v. polyclados   | 8    |
| ensenadanus          | 21   | torta           | 8    |
| eramosus             | 21   | tubulosa        | 8    |
| flagelliferus        | 22   | Entocladia      |      |
| flocculiformis       | 22   | cingens         | 4    |
| fructuosus           | 22   | codicola        | 4    |
| globifer             | 22   | condensata      | 4    |
| gonodioides          | 22   | mexicana        | 5    |
| granulosoides        | 22   | Polysiphoniae   | 5    |
| v. pygmaeus          | 22   | viridis         | 5    |
| granulosus           | 22   |                 |      |

|                | PAGE |                  | PAGE |
|----------------|------|------------------|------|
| Erythrocladia  |      | f. flabellatus   | 44   |
| irregularis    | 50   | f. longifructus  | 44   |
| subintegra     | 50   | f. macrocephalus | 44   |
| Erythroglossum |      | f. magnificus    | 44   |
| californicum   | 103  | f. marginatus    | 44   |
| divaricata     | 103  | f. nanus         | 44   |
| intermedium    | 103  | f. oregonensis   | 44   |
| Erythropeltis  |      | f. pergrandis    | 44   |
| discigera      | 49   | f. robustus      | 44   |
| Erythrophyllum |      | f. rudis         | 44   |
| delesserioides | 89   | f. stellatus     | 44   |
| Erythrotrichia |      | f. typicus       | 45   |
| californica    | 49   | furcatus         | 45   |
| carnea         | 49   | f. abbreviatus   | 45   |
| ceramicola     | 49   | f. angustus      | 45   |
| Kylinii        | 49   | f. contortus     | 45   |
| Parksii        | 49   | f. cornutus      | 45   |
| v. minor       | 49   | f. elongatus     | 45   |
| polymorpha     | 50   | f. latifrons     | 45   |
| porphyroides   | 50   | f. linearis      | 45   |
| pulvinata      | 50   | f. luxurians     | 45   |
| tetraseriata   | 50   | f. nigricans     | 45   |
| Welwitschii    | 50   | f. reflexus      | 45   |
| Estebania      |      | f. rigidus       | 45   |
| conjuncta      | 73   | f. typicus       | 46   |
| Eucheuma       |      | f. variabilis    | 46   |
| uncinatum      | 79   | membranaceus     |      |
| Euthora        |      | f. abbreviatus   | 46   |
| cristata       | 81   | f. acuminatus    | 46   |
| fruticulosa    | 81   | f. latissimus    | 46   |
|                |      | f. limitatus     | 46   |
| Falkenbergia   |      | f. obtusus       | 46   |
| Hillebrandtii  | 111  | f. typicus       | 46   |
| Farlowia       |      | nitens           | 46   |
| compressa      | 61   | Parksii          | 46   |
| crassa         | 61   |                  |      |
| mollis         | 61   |                  |      |
| Fauchea        |      | Galaxaura        |      |
| crispa         | 89   | fastigiata       | 57   |
| Fryeana        | 89   | filamentosa      | 57   |
| laciniata      | 89   | marginata        | 57   |
| media          | 90   | oblongata        | 57   |
| mollis         | 90   | ramulosa         | 57   |
| pygmaea        | 90   | squalida         | 57   |
| Sefferi        | 90   | stupocaulon      | 57   |
| Faucheocolax   |      | subfruticulosa   | 57   |
| attenuata      | 90   | ventricosa       | 57   |
| Fosliella      |      | veprecula        | 57   |
| ascripticia    | 66   | Gardneriella     |      |
| dispar         | 66   | tubifera         | 79   |
| intermedia     | 66   | Gastroclonium    |      |
| minuta         | 66   | clavatum         | 93   |
| Nicholsii      | 66   | Coulteri         | 93   |
| paschalis      | 66   | Gayella          |      |
| Fryella        |      | constricta       | 10   |
| Gardneri       | 90   | polyrhiza        | 10   |
| Fucus          |      | Gelidiella       |      |
| edentatus      | 43   | acerosa          | 60   |
| f. acutus      | 43   | Hancockii        | 60   |
| f. costatus    | 43   | mexicana         | 60   |
| f. divaricatus | 43   | refugiensis      | 60   |
| f. divergens   | 43   | Gelidiocolax     |      |
| f. hesperius   | 43   | microsphaerica   | 60   |
| evanescens     | 43   | Gelidiopsis      |      |
| f. cornutus    | 43   | tenuis           | 60   |
| f. cuneatus    | 44   | variabilis       | 60   |
| f. dendroides  | 44   | Gelidium         |      |
| f. ecostatus   | 44   | arborescens      | 58   |
|                |      | caloglossoides   | 58   |

|                      | PAGE |                      | PAGE |
|----------------------|------|----------------------|------|
| Gelidium             |      | cornu-cervi .....    | 49   |
| cartilagineum .....  | 58   | elegans .....        | 49   |
| v. robustum .....    | 58   | Gonodia              |      |
| Coulteri .....       | 58   | Johnstonii .....     | 26   |
| crinale .....        | 58   | Marchantae .....     | 26   |
| v. luxurians .....   | 58   | Gracilaria           |      |
| decompositum .....   | 58   | Andersonii .....     | 81   |
| densum .....         | 59   | cerrosiana .....     | 81   |
| Johnstonii .....     | 59   | compressa .....      | 81   |
| microphysa .....     | 59   | confervoides .....   | 82   |
| nudifrons .....      | 59   | crispata .....       | 82   |
| polystichum .....    | 59   | guaymasensis .....   | 82   |
| pulchrum .....       | 59   | Hancockii .....      | 82   |
| purpurascens .....   | 59   | Johnstonii .....     | 82   |
| pusillum .....       | 59   | lacerata .....       | 82   |
| ramuliferum .....    | 59   | lichenoides .....    | 82   |
| sclerophyllum .....  | 59   | linearis .....       | 82   |
| Setchellii .....     | 59   | pachydermatica ..... | 82   |
| sinicola .....       | 59   | panamensis .....     | 82   |
| Gigartina            |      | pinnata .....        | 82   |
| Agardhii .....       | 85   | robusta .....        | 82   |
| armata .....         | 85   | Sjoestedtii .....    | 83   |
| asperifolia .....    | 85   | subsecundata .....   | 83   |
| Binghamiae .....     | 85   | tenuifolia .....     | 83   |
| Boryi .....          | 85   | veleroae .....       | 83   |
| californica .....    | 85   | Vivesii .....        | 83   |
| canaliculata .....   | 85   | Gracilariophila      |      |
| corymbifera .....    | 85   | Gardneri .....       | 83   |
| cristata .....       | 85   | oryzoides .....      | 83   |
| dichotoma .....      | 86   | Grateloupia          |      |
| Eatoniana .....      | 86   | abbreviata .....     | 72   |
| echinata .....       | 86   | acroidalea .....     | 72   |
| exasperata .....     | 86   | californica .....    | 72   |
| Harveyana .....      | 86   | cerrosiana .....     | 72   |
| Jardinii .....       | 86   | filičina .....       | 72   |
| Johnstonii .....     | 86   | Hancockii .....      | 72   |
| latissima .....      | 86   | Howei .....          | 72   |
| leptorhynchos .....  | 86   | Johnstonii .....     | 72   |
| Macdougallii .....   | 86   | maxima .....         | 73   |
| mamillosa .....      | 86   | pinnata .....        | 73   |
| multidichotoma ..... | 86   | prolongata .....     | 73   |
| obovata .....        | 86   | Setchellii .....     | 73   |
| papillata .....      | 87   | squarrulosa .....    | 73   |
| pectinata .....      | 87   | Griffithsia          |      |
| serrata .....        | 87   | multiramosa .....    | 98   |
| sitchensis .....     | 87   | v. balboensis .....  | 98   |
| spinosa .....        | 87   | v. minor .....       | 98   |
| stellata .....       | 87   | pacifica .....       | 98   |
| tepida .....         | 87   | Schoesboei .....     | 98   |
| Turneri .....        | 87   | tenuis .....         | 98   |
| unalaschensis .....  | 87   | Grinnellia           |      |
| Gloiopeltis          |      | lanceolata .....     | 104  |
| furcata .....        | 62   | Gymnogongrus         |      |
| miniata .....        | 62   | carnosus .....       | 84   |
| Gloiophloea          |      | divaricatus .....    | 84   |
| confusa .....        | 56   | Hancockii .....      | 84   |
| Gloiosiphonia        |      | leptophyllus .....   | 84   |
| californica .....    | 62   | linearis .....       | 84   |
| capillaris .....     | 62   | martinensis .....    | 84   |
| verticillaris .....  | 62   | norvegicus .....     | 84   |
| Gomontia             |      | platyphyllus .....   | 84   |
| polyrhiza .....      | 6    | sinicola .....       | 84   |
| Gonimophyllum        |      | Gymnothamnion        |      |
| Skottsbergii .....   | 106  | elegans .....        | 97   |
| Goniotrichopsis      |      | Halicystis           |      |
| sublittoralis .....  | 49   | ovalis .....         | 16   |
| Goniotrichum         |      |                      |      |
| Alsidii .....        | 49   |                      |      |



|                     | PAGE |                       | PAGE |
|---------------------|------|-----------------------|------|
| Halidrys            |      | Holmesia              |      |
| dioica .....        | 47   | californica .....     | 103  |
| Halimeda            |      | Hormiscia             |      |
| discoidea .....     | 19   | doliifera .....       | 11   |
| opuntia .....       | 19   | grandis .....         | 11   |
| tuna .....          | 19   | penicilliformis ..... | 11   |
| Haloplegma          |      | sphaerulifera .....   | 11   |
| mexicanum .....     | 97   | tetraciliata .....    | 11   |
| Halorhipis          |      | vancouveriana .....   | 11   |
| Winstonii .....     | 35   | Wormskioldii .....    | 11   |
| Halosaccion         |      | Hydroclathrus         |      |
| glandiforme .....   | 96   | clathratus .....      | 37   |
| ramentaceum .....   | 91   | Hydrolithon           |      |
| Tilesii .....       | 91   | Setchellii .....      | 65   |
| Halothrix           |      | Hymenena              |      |
| lumbricalis .....   | 26   | flabelligera .....    | 105  |
| Halymenia           |      | Kylinii .....         | 105  |
| abyssicola .....    | 74   | multiloba .....       | 105  |
| actinophysa .....   | 74   | Setchellii .....      | 105  |
| Agardhii .....      | 74   | Smithii .....         | 105  |
| californica .....   | 74   | Hypnea                |      |
| refugiensis .....   | 74   | adunca .....          | 80   |
| Hapalospongidion    |      | californica .....     | 80   |
| gelatinosum .....   | 26   | Esperi .....          | 80   |
| Haplogloia          |      | Evermanii .....       | 80   |
| Andersonii .....    | 33   | Johnstonii .....      | 80   |
| Kuckuckii .....     | 33   | nidifica .....        | 80   |
| Hapterophycus       |      | nidulans .....        | 80   |
| canaliculatus ..... | 26   | pannosa .....         | 80   |
| Hedophyllum         |      | spinella .....        | 80   |
| sessile .....       | 41   | variabilis .....      | 80   |
| subsessile .....    | 41   | Hypoglossum           |      |
| Helminthocladia     |      | abyssicolum .....     | 102  |
| californica .....   | 55   | attenuatum .....      | 102  |
| gracilis .....      | 55   | retusum .....         | 102  |
| Helminthora         |      | Ilea                  |      |
| Saundersii .....    | 55   | Fascia .....          | 36   |
| stricta .....       | 55   | f. caespitosa .....   | 36   |
| Herposiphonia       |      | f. debilis .....      | 36   |
| grandis .....       | 112  | f. typica .....       | 36   |
| parva .....         | 112  | f. zosterifolia ..... | 36   |
| pygmaea .....       | 112  | Internoretia          |      |
| rigida .....        | 112  | Freyeana .....        | 5    |
| v. laxa .....       | 112  | Iridea                |      |
| secunda .....       | 112  | californica .....     | 88   |
| subdisticha .....   | 112  | Iridophycus           |      |
| tenella .....       | 112  | californicum .....    | 88   |
| verticillata .....  | 112  | cordatum .....        | 88   |
| Hesperophycus       |      | coriaceum .....       | 88   |
| Harveyanus .....    | 47   | flaccidum .....       | 88   |
| Heterochordaria     |      | fulgens .....         | 88   |
| abietina .....      | 33   | furcatum .....        | 88   |
| Heteroderma         |      | heterocarpum .....    | 88   |
| corallinicola ..... | 66   | lineare .....         | 88   |
| Gibbsii .....       | 66   | Parksii .....         | 88   |
| Heteronema          |      | parvulum .....        | 88   |
| boreale .....       | 104  | Reediae .....         | 89   |
| Heterosiphonia      |      | sanguineum .....      | 89   |
| asymmetria .....    | 107  | sinicola .....        | 89   |
| densiuscula .....   | 107  | splendens .....       | 89   |
| erecta .....        | 107  | whidbeyanum .....     | 89   |
| laxa .....          | 107  | Ishige                |      |
| sinicola .....      | 107  | foliacea .....        | 38   |
| Hildenbrandia       |      | Janczewskia           |      |
| occidentalis .....  | 63   | Gardneri .....        | 115  |
| prototypus .....    | 63   | lappacea .....        | 115  |
| rosea .....         | 63   |                       |      |



|                             | PAGE |
|-----------------------------|------|
| Janczewskia                 |      |
| <i>moriformis</i> .....     | 115  |
| <i>Solmsii</i> .....        | 115  |
| Jania                       |      |
| <i>adhaerens</i> .....      | 70   |
| <i>capillacea</i> .....     | 70   |
| <i>mexicana</i> .....       | 70   |
| <i>rubens</i> .....         | 70   |
| Jantiniella                 |      |
| <i>sinicola</i> .....       | 112  |
| <i>verrucaeformis</i> ..... | 112  |
| Joculator                   |      |
| <i>pinnatifolius</i> .....  | 69   |
| Kallymenia                  |      |
| <i>angustata</i> .....      | 75   |
| <i>guaymasensis</i> .....   | 75   |
| <i>oblongifructa</i> .....  | 75   |
| <i>ornata</i> .....         | 75   |
| <i>pertusa</i> .....        | 75   |
| <i>reniformis</i> .....     | 76   |
| <i>f. cuneata</i> .....     | 76   |
| <i>tenuifolia</i> .....     | 76   |
| <i>veleroae</i> .....       | 76   |
| Laminaria                   |      |
| <i>Andersonii</i> .....     | 39   |
| <i>complanata</i> .....     | 39   |
| <i>cuneifolia</i> .....     | 39   |
| <i>f. amplissima</i> .....  | 39   |
| <i>f. angusta</i> .....     | 39   |
| <i>f. subsimplex</i> .....  | 39   |
| <i>dentigera</i> .....      | 39   |
| <i>ephemera</i> .....       | 40   |
| <i>Farlowii</i> .....       | 40   |
| <i>longipes</i> .....       | 40   |
| <i>personata</i> .....      | 40   |
| <i>platymeris</i> .....     | 40   |
| <i>saccharina</i> .....     | 40   |
| <i>f. linearis</i> .....    | 40   |
| <i>f. membranacea</i> ..... | 40   |
| <i>Sinclairii</i> .....     | 40   |
| Laurencia                   |      |
| <i>clarionensis</i> .....   | 113  |
| <i>crispa</i> .....         | 114  |
| <i>diegoensis</i> .....     | 114  |
| <i>estebaniana</i> .....    | 114  |
| <i>Gardneri</i> .....       | 114  |
| <i>Hancockii</i> .....      | 114  |
| <i>humilis</i> .....        | 114  |
| <i>intricata</i> .....      | 114  |
| <i>Johnstonii</i> .....     | 114  |
| <i>Masonii</i> .....        | 114  |
| <i>obtusiuscula</i> .....   | 114  |
| <i>pacifica</i> .....       | 114  |
| <i>paniculata</i> .....     | 114  |
| <i>papillosa</i>            |      |
| <i>v. pacifica</i> .....    | 114  |
| <i>peninsularis</i> .....   | 115  |
| <i>scrippsensis</i> .....   | 115  |
| <i>sinicola</i> .....       | 115  |
| <i>Snyderae</i> .....       | 115  |
| <i>spectabilis</i> .....    | 115  |
| <i>splendens</i> .....      | 115  |
| <i>subopposita</i> .....    | 115  |
| <i>voragina</i> .....       | 115  |

|                              | PAGE |
|------------------------------|------|
| Leathesia                    |      |
| <i>difformis</i> .....       | 30   |
| <i>nana</i> .....            | 30   |
| Leptocladia                  |      |
| <i>Binghamiae</i> .....      | 61   |
| <i>conferta</i> .....        | 61   |
| <i>laxa</i> .....            | 61   |
| Leptofauchea                 |      |
| <i>pacifica</i> .....        | 90   |
| Lessoniopsis                 |      |
| <i>littoralis</i> .....      | 41   |
| Liagora                      |      |
| <i>californica</i> .....     | 56   |
| <i>ceranoides</i> .....      | 56   |
| <i>valida</i> .....          | 56   |
| Lithoderma                   |      |
| <i>fatiscens</i> .....       | 26   |
| Litholepis                   |      |
| <i>accola</i> .....          | 66   |
| <i>fertilis</i> .....        | 66   |
| <i>sonorensis</i> .....      | 66   |
| Lithophyllum                 |      |
| <i>bracchiatum</i> .....     | 67   |
| <i>coibense</i> .....        | 67   |
| <i>decipiens</i> .....       | 67   |
| <i>Digueti</i> .....         | 67   |
| <i>divaricatum</i> .....     | 67   |
| <i>elegans</i> .....         | 68   |
| <i>fetum</i> .....           | 67   |
| <i>grumosum</i> .....        | 67   |
| <i>Hancockii</i> .....       | 67   |
| <i>imitans</i> .....         | 67   |
| <i>lithophylloides</i> ..... | 67   |
| <i>lividum</i> .....         | 68   |
| <i>Margaritae</i> .....      | 68   |
| <i>muricatum</i> .....       | 65   |
| <i>neofarlowii</i> .....     | 68   |
| <i>pallescens</i> .....      | 68   |
| <i>proboscium</i> .....      | 68   |
| <i>propinquum</i>            |      |
| <i>v. cocosica</i> .....     | 68   |
| <i>trichotomum</i> .....     | 68   |
| <i>veleroae</i> .....        | 68   |
| <i>whidbeyense</i> .....     | 68   |
| Lithoporella                 |      |
| <i>pacifica</i> .....        | 66   |
| Lithothamnium                |      |
| <i>aculeiferum</i> .....     | 64   |
| <i>australe</i>              |      |
| <i>f. americana</i> .....    | 64   |
| <i>f. minutula</i> .....     | 64   |
| <i>f. tualensis</i> .....    | 64   |
| <i>californicum</i> .....    | 64   |
| <i>conchatum</i> .....       | 64   |
| <i>crassiusculum</i> .....   | 65   |
| <i>giganteum</i> .....       | 65   |
| <i>indicum</i> .....         | 65   |
| <i>lamellatum</i> .....      | 65   |
| <i>montereyicum</i> .....    | 65   |
| <i>muricatum</i> .....       | 65   |
| <i>pacificum</i> .....       | 65   |
| <i>parcum</i> .....          | 65   |
| <i>phymatodeum</i> .....     | 65   |
| <i>reclinatum</i> .....      | 65   |
| <i>validum</i> .....         | 65   |
| Lithothrix                   |      |
| <i>aspergillum</i> .....     | 69   |

|                    | PAGE |                         | PAGE |
|--------------------|------|-------------------------|------|
| Lobocolax          |      | balticum                |      |
| deformans .....    | 75   | f. californicum .....   | 30   |
| Lola               |      | f. pedicellatum .....   | 30   |
| lubrica .....      | 10   | compsonematoides .....  | 30   |
| Lomentaria         |      | corunnae                |      |
| Baileyana .....    | 92   | f. angulatum .....      | 30   |
| Caseae .....       | 92   | f. sterile .....        | 30   |
| catenata .....     | 93   | f. uniforme .....       | 30   |
| Drouetii .....     | 93   | foecundum               |      |
| hakodatensis ..... | 93   | f. ramulosum .....      |      |
| Lophosiphonia      |      | f. simplicissimum ..... | 31   |
| mexicana .....     | 110  | f. subulatum .....      | 31   |
| obscura .....      | 110  | globosum                |      |
| villum .....       | 110  | f. affine .....         | 31   |
| Macrozystis        |      | minutissimum .....      | 31   |
| integrifolia ..... | 41   | obscurum .....          | 31   |
| pyriferia .....    | 41   | phyllophyllum .....     | 31   |
| Masonophycus       |      | primarium .....         | 31   |
| paradoxa .....     | 27   | setiferum .....         | 31   |
| Melobesia          |      | strangulans .....       | 31   |
| marginata .....    | 64   | Nemacystus              |      |
| mediocris .....    | 64   | Brandegeei .....        | 33   |
| Membranoptera      |      | Nemalion                |      |
| denticulata .....  | 102  | elninthoides .....      | 55   |
| dimorpha .....     | 102  | lubricum .....          | 55   |
| multiramosa .....  | 102  | virens .....            | 55   |
| platyphylla .....  | 103  | Neogoniolithon          |      |
| Setchellii .....   | 103  | trichotomum .....       | 68   |
| tenuis .....       | 103  | Neomeris                |      |
| Weeksiae .....     | 103  | Vanbosseae .....        | 15   |
| Meredithia         |      | Nereocystis             |      |
| californica .....  | 76   | Luetkeana .....         | 41   |
| Mesophyllum        |      | Neurocarpus             |      |
| australe           |      | delicatula .....        | 28   |
| v. minutula .....  | 64   | zonarioides .....       | 29   |
| v. tualensis ..... | 64   | Nienburgia              |      |
| Microcladia        |      | Andersoniana .....      | 104  |
| borealis .....     | 101  | borealis .....          | 104  |
| californica .....  | 101  | Nitophyllum             |      |
| Coulteri .....     | 101  | mirabile .....          | 105  |
| Microdictyon       |      | Odonthalia              |      |
| Palmeri .....      | 14   | dentata .....           | 116  |
| Monostroma         |      | floccosa .....          | 116  |
| areolatum .....    | 6    | kamtschatica .....      | 116  |
| fractum .....      | 6    | Lyallii .....           | 116  |
| fuscum .....       | 6    | washingtoniensis .....  | 116  |
| v. splendens ..... | 6    | Opuntiella              |      |
| v. Blythii .....   | 6    | californica .....       | 79   |
| Grevillei .....    | 6    | Orcasia                 |      |
| v. lubricum .....  | 6    | senticulosa .....       | 107  |
| v. VahlII .....    | 6    | Ostreobium              |      |
| latissimum .....   | 6    | Quekettii .....         | 17   |
| orbiculatum .....  | 7    | Reineckeii .....        | 17   |
| quaternarium ..... | 7    | Pachyarthron            |      |
| zostericola .....  | 7    | cretaceum .....         | 69   |
| Myelophycus        |      | Padina                  |      |
| intestinale .....  | 36   | Durvillaei .....        | 29   |
| f. tenue .....     | 36   | caulescens .....        | 29   |
| Myriogramme        |      | crispata .....          | 29   |
| divaricata .....   | 104  | mexicana .....          | 29   |
| Hollenbergii ..... | 105  | tetrastromatica .....   | 29   |
| pulchra .....      | 105  | Pantoneura              |      |
| repens .....       | 105  | Baerii .....            | 105  |
| spectabilis .....  | 105  | Juergensii .....        | 105  |
| Myrionema          |      |                         |      |
| attenuatum .....   | 30   |                         |      |

|                      | PAGE |                       | PAGE |
|----------------------|------|-----------------------|------|
| Pelagophycus         |      | Pleurophycus          |      |
| porra .....          | 41   | Gardneri .....        | 40   |
| Pelvetia             |      | Plocamiocolax         |      |
| fastigiata .....     | 46   | pulvinata .....       | 81   |
| f. gracilis .....    | 46   | Plocamium             |      |
| Pelvetiopsis         |      | pacificum .....       | 81   |
| arborescens .....    | 47   | tenue .....           | 81   |
| limitata .....       | 47   | violaceum .....       | 81   |
| f. lata .....        | 47   | Pocockiella           |      |
| f. typica .....      | 47   | variegata .....       | 29   |
| Percursaria          |      | Pogonophora           |      |
| percursa .....       | 9    | californica .....     | 107  |
| Petrocelis           |      | Polycoryne            |      |
| franciscana .....    | 63   | Gardneri .....        | 104  |
| haematis .....       | 64   | phycodricola .....    | 104  |
| Middendorffii .....  | 64   | Polyneura             |      |
| Petroglossum         |      | latissima .....       | 104  |
| pacificum .....      | 84   | Polyneurella          |      |
| parvum .....         | 84   | Hancockii .....       | 104  |
| Petrospongium        |      | Polyopes              |      |
| rugosum .....        | 30   | Büshiae .....         | 73   |
| Peyssonnelia         |      | clarionensis .....    | 73   |
| calcea .....         | 63   | sinicola .....        | 74   |
| clarionensis .....   | 63   | Polysiphonia          |      |
| pacifica .....       | 63   | acuminata .....       | 107  |
| rubra .....          | 63   | bifurcata .....       | 107  |
| Phaeophilia          |      | Brodiaei .....        | 108  |
| dendroides .....     | 4    | californica .....     | 110  |
| Engleri .....        | 4    | Collinsii .....       | 108  |
| polymorpha .....     | 4    | v. compacta .....     | 108  |
| Phaeostrophion       |      | v. deliquescens ..... | 108  |
| irregulare .....     | 38   | v. luxurians .....    | 108  |
| Phycodrys            |      | concinna .....        | 108  |
| ambigua .....        | 104  | decussata .....       | 108  |
| bullata .....        | 104  | dichotoma .....       | 108  |
| Riggii .....         | 104  | Eastwoodae .....      | 108  |
| Setchellii .....     | 104  | flaccidissima .....   | 108  |
| Phyllophora          |      | v. Smithii .....      | 108  |
| californica .....    | 83   | guadalupensis .....   | 108  |
| Clevelandii .....    | 83   | Hancockii .....       | 108  |
| Pikea                |      | Hendryi .....         | 109  |
| californica .....    | 61   | homoia .....          | 109  |
| pinnata .....        | 61   | Howei .....           | 109  |
| Pilinia              |      | inconspicua .....     | 109  |
| Lunatae              |      | Johnstonii .....      | 109  |
| f. simplex .....     | 4    | Macounii .....        | 109  |
| maritima             |      | Marchantae .....      | 109  |
| f. pacifica .....    | 4    | Masonii .....         | 109  |
| Platymonas           |      | minutissima .....     | 109  |
| subcordiformis ..... | 3    | pacifica .....        | 109  |
| Platysiphonia        |      | v. delicatula .....   | 109  |
| Clevelandii .....    | 103  | v. determinata .....  | 109  |
| Platythamnion        |      | v. disticha .....     | 109  |
| heteromorphum .....  | 95   | v. gracilis .....     | 110  |
| pectinatum .....     | 95   | paniculata .....      | 110  |
| v. laxum .....       | 95   | pungens .....         | 110  |
| reversum .....       | 95   | simplex .....         | 110  |
| tepocensis .....     | 95   | Snyderae .....        | 110  |
| villosum .....       | 95   | v. heteromorpha ..... | 110  |
| Pleonosporium        |      | v. intricata .....    | 110  |
| abyssicola .....     | 97   | sonorensis .....      | 110  |
| dasyoides .....      | 97   | Porolithon            |      |
| polycarpum .....     | 97   | cocosicum .....       | 67   |
| pygmaeum .....       | 98   | sonorensis .....      | 67   |
| saccorhiza .....     | 98   | Porphyra              |      |
| squarrosus .....     | 98   | abyssicola .....      | 50   |
| v. obovatum .....    | 98   | amplissima .....      | 50   |
| vancouverianum ..... | 98   |                       |      |



|                       | PAGE |                        | PAGE |
|-----------------------|------|------------------------|------|
| Porphyra              |      | dendroidea             | 111  |
| <i>laciniata</i>      | 51   | <i>gracilis</i>        | 111  |
| <i>f. umbilicalis</i> | 51   | <i>pennata</i>         | 111  |
| <i>lanceolata</i>     | 51   | <i>robusta</i>         | 111  |
| <i>miniata</i>        |      | <i>v. divaricata</i>   | 111  |
| <i>f. cuneiformis</i> | 51   | <i>v. inermis</i>      | 111  |
| <i>naiadum</i>        | 51   | Pterygophora           |      |
| <i>Nereocystis</i>    | 51   | <i>californica</i>     | 41   |
| <i>occidentalis</i>   | 51   | Ptilota                |      |
| <i>perforata</i>      | 51   | <i>asplenoides</i>     | 101  |
| <i>f. segregata</i>   | 51   | <i>californica</i>     | 101  |
| <i>pulchra</i>        | 51   | <i>densa</i>           | 101  |
| <i>schizophylla</i>   | 51   | <i>filicina</i>        | 102  |
| <i>Thuretii</i>       | 51   | <i>hypnoides</i>       | 102  |
| <i>tenuissima</i>     | 51   | <i>pectinata</i>       | 102  |
| <i>umbilicalis</i>    | 51   | <i>tenuis</i>          | 102  |
| <i>variegata</i>      | 52   | Pugetia                |      |
| Porphyrella           |      | <i>firma</i>           | 76   |
| <i>californica</i>    | 52   | <i>fragilissima</i>    | 76   |
| <i>Gardneri</i>       | 52   | Punctaria              |      |
| Porphyropsis          |      | <i>chartacea</i>       | 35   |
| <i>coccinea</i>       | 52   | <i>expansa</i>         | 35   |
| Postelsia             |      | <i>hesperia</i>        | 35   |
| <i>palmaeformis</i>   | 41   | <i>latifolia</i>       | 35   |
| Prasinocladus         |      | <i>lobata</i>          | 35   |
| <i>lubricus</i>       | 3    | <i>occidentalis</i>    | 35   |
| Prasiola              |      | <i>orbiculata</i>      | 35   |
| <i>borealis</i>       | 10   | <i>plantaginea</i>     | 35   |
| <i>calophylla</i>     | 10   | Pylaiella              |      |
| Predaea               |      | <i>Gardneri</i>        | 20   |
| <i>Masonii</i>        | 78   | <i>littoralis</i>      | 20   |
| Pringsheimia          |      | <i>tenella</i>         | 20   |
| <i>Marchantae</i>     | 5    | <i>unilateralis</i>    | 20   |
| Pringsheimiella       |      | <i>washingtonensis</i> | 20   |
| <i>Marchantae</i>     | 5    | Ralfsia                |      |
| Prionitis             |      | <i>californica</i>     | 25   |
| <i>abbreviata</i>     | 74   | <i>clavata</i>         | 25   |
| <i>Andersoniana</i>   | 74   | <i>fungiformis</i>     | 25   |
| <i>australis</i>      | 74   | <i>Hancockii</i>       | 25   |
| <i>filiformis</i>     | 74   | <i>hesperia</i>        | 25   |
| <i>v. delicatula</i>  | 74   | <i>occidentalis</i>    | 25   |
| <i>guaymasensis</i>   | 74   | <i>pacifica</i>        | 26   |
| <i>kinoensis</i>      | 75   | Rhizoclonium           |      |
| <i>lanceolata</i>     | 75   | <i>implexum</i>        | 10   |
| <i>linearis</i>       | 75   | <i>Kernerii</i>        | 10   |
| <i>Lyallii</i>        | 75   | <i>lubricum</i>        | 10   |
| <i>mexicana</i>       | 75   | <i>riparium</i>        | 10   |
| <i>Sternbergii</i>    | 75   | <i>tortuosum</i>       | 10   |
| Pseudodictyon         |      | Rhodochorton           |      |
| <i>geniculatum</i>    | 5    | <i>Amphiroae</i>       | 52   |
| Pseudopringsheimia    |      | <i>arcuatum</i>        | 54   |
| <i>apiculata</i>      | 5    | <i>concrescens</i>     | 55   |
| Pseudoscinaia         |      | <i>microscopicum</i>   | 54   |
| <i>Snyderae</i>       | 56   | <i>penicilliforme</i>  | 55   |
| Pseudoulvella         |      | <i>purpureum</i>       | 55   |
| <i>prostrata</i>      | 5    | <i>tenue</i>           | 55   |
| Pteridium             |      | Rhododermis            |      |
| <i>spinulosum</i>     | 102  | <i>elegans</i>         | 63   |
| Pterochondria         |      | Rhodoglossum           |      |
| <i>pygmaea</i>        | 112  | <i>affine</i>          | 87   |
| <i>Woodii</i>         | 112  | <i>americanum</i>      | 87   |
| Pterocladia           |      | <i>coriaceum</i>       | 87   |
| <i>mexicana</i>       | 59   | <i>Hancockii</i>       | 87   |
| Pterosiphonia         |      | <i>latissimum</i>      | 88   |
| <i>arctica</i>        | 111  | <i>parvum</i>          | 88   |
| <i>Baileyi</i>        | 111  | <i>roseum</i>          | 88   |
| <i>bipinnata</i>      | 111  |                        |      |
| <i>californica</i>    | 111  |                        |      |



|                      | PAGE |                        | PAGE |
|----------------------|------|------------------------|------|
| Rhodomela            |      | Scinaia                |      |
| larix .....          | 116  | articulata .....       | 56   |
| lycopodioides .....  | 116  | complanata .....       | 56   |
| Rhodophyllis         |      | Johnstoniae .....      | 56   |
| dichotoma            |      | latifrons .....        | 56   |
| f. setacea.....      | 81   | minima .....           | 56   |
| Rhodosiphonia        |      | Scytosiphon            |      |
| californica .....    | 110  | bullosus .....         | 37   |
| Rhodymenia           |      | lomentaria .....       | 36   |
| arborescens .....    | 91   | f. cylindricus .....   | 36   |
| attenuata .....      | 91   | f. typica .....        | 36   |
| californica .....    | 91   | v. complanatus .....   | 36   |
| Dawsonii .....       | 91   | Siphonocladus          |      |
| divaricata .....     | 91   | pusilloides .....      | 15   |
| Hancockii .....      | 91   | Soranthera             |      |
| lobata .....         | 91   | ulvoidea .....         | 35   |
| lobulifera .....     | 91   | f. difformis .....     | 36   |
| pacifica .....       | 91   | Sorella                |      |
| palmata .....        | 91   | delicatula .....       | 103  |
| f. mollis .....      | 91   | v. californica .....   | 103  |
| f. sarniensis .....  | 92   | divaricata .....       | 103  |
| palmettiformis ..... | 92   | pinnata .....          | 104  |
| pertusa .....        | 92   | Spermothamnion         |      |
| rhizoides .....      | 92   | saccorhiza .....       | 98   |
| rosea .....          | 92   | Snyderae .....         | 98   |
| stipitata .....      | 92   | Sphacelaria            |      |
| tepocensis .....     | 92   | brevicorne .....       | 26   |
| Rhodymeniocolax      |      | californica .....      | 26   |
| botryoidea .....     | 92   | didichotoma .....      | 26   |
| Ricardia             |      | furcigera .....        | 27   |
| saccata .....        | 115  | Hancockii .....        | 27   |
| Rosenvingea          |      | Masonii .....          | 27   |
| intricata .....      | 37   | mexicana .....         | 27   |
| Sarcodiotheca        |      | novae-hollandiae ..... | 27   |
| cuneata .....        | 79   | racemosa .....         | 27   |
| dichotoma .....      | 79   | subfusca .....         | 27   |
| ecuadoreana .....    | 79   | Spongomorpha           |      |
| elongata .....       | 79   | arcta .....            | 14   |
| furcata .....        | 79   | coalita .....          | 14   |
| linearis .....       | 80   | duriuscula .....       | 14   |
| meridionalis .....   | 80   | hystrix .....          | 14   |
| Sarcophyllis         |      | Mertensii .....        | 14   |
| arctica .....        | 61   | saxatilis .....        | 14   |
| Sargassum            |      | v. Chamissonis .....   | 14   |
| acinacifolium .....  | 47   | spinescens .....       | 14   |
| Agardhianum .....    | 47   | Sporochnus             |      |
| asymmetricum .....   | 48   | pedunculatus .....     | 33   |
| Brandegeei .....     | 48   | Spyridia               |      |
| Camouii .....        | 48   | filamentosa .....      | 97   |
| herporhizum .....    | 48   | Stenogramme            |      |
| horridum .....       | 48   | californica .....      | 85   |
| Howellii .....       | 48   | interrupta .....       | 85   |
| Johnstonii .....     | 48   | Stephanoptera          |      |
| f. gracile .....     | 48   | gracilis .....         | 3    |
| lapazeanum .....     | 48   | Stictyosiphon          |      |
| Liebmanni .....      | 48   | tortilis .....         | 38   |
| Macdougalli .....    | 48   | Streblonema            |      |
| Palmeri .....        | 48   | aecidioides            |      |
| sinicola .....       | 48   | f. pacificum .....     | 24   |
| Saundersella         |      | anomalum .....         | 24   |
| simplex .....        | 33   | codicola .....         | 24   |
| Schizymenia          |      | corymbiferum .....     | 24   |
| epiphytica .....     | 78   | Desmarestiae .....     | 24   |
| Johnstonii .....     | 78   | evagatum .....         | 24   |
| pacifica .....       | 78   | investiens .....       | 24   |
| Sciadophycus         |      | irregulare .....       | 24   |
| stellatus .....      | 90   | Johnstonae .....       | 24   |
|                      |      | minutissium .....      | 24   |

|                       | PAGE |                              | PAGE |
|-----------------------|------|------------------------------|------|
| Streblonema           |      | Linza .....                  | 9    |
| myrionematoides ..... | 24   | lobata .....                 | 9    |
| pacificum .....       | 25   | rigida .....                 | 9    |
| penetrans .....       | 25   | stenophylla .....            | 9    |
| Porphyrae .....       | 25   | taeniata .....               | 9    |
| rugosum .....         | 25   | vexata .....                 | 9    |
| scabiosum .....       | 25   | Ulvella                      |      |
| transfixum .....      | 25   | <i>Lens</i> .....            | 5    |
| vorax .....           | 25   | <i>Setchellii</i> .....      | 5    |
| Stromatocarpus        |      | <i>Urospora</i>              |      |
| Gardneri .....        | 111  | <i>peniciliiformis</i> ..... | 11   |
| Syringoderma          |      | Valoniopsis                  |      |
| abyssicola .....      | 29   | Hancockii .....              | 15   |
| Taonia                |      | pachynema .....              | 15   |
| Lennebackerae .....   | 29   | Vaucheria                    |      |
| Taenioma              |      | litoria .....                | 17   |
| perpusillum .....     | 103  | Veleroa                      |      |
| Thalassiophyllum      |      | subulata .....               | 111  |
| clathrus .....        | 40   | Weeksia                      |      |
| Thuretellopsis        |      | Fryeana .....                | 61   |
| Peggiana .....        | 61   | Howellii .....               | 62   |
| Trailiella            |      | reticulata .....             | 62   |
| intricata .....       | 93   | Templetonii .....            | 62   |
| Trentepohlia          |      | Whidbeyella                  |      |
| odorata .....         | 6    | cartilaginea .....           | 56   |
| v. umbrina .....      | 6    | Wurdemannia                  |      |
| Turnerella            |      | miniata .....                | 60   |
| Mertensiana .....     | 79   | Zanardinula                  |      |
| Tylotus               |      | abbreviata .....             | 74   |
| Cunninghamii .....    | 83   | Andersoniana .....           | 74   |
| Ulothrix              |      | australis .....              | 74   |
| flacca .....          | 3    | filiformis .....             | 74   |
| implexa .....         | 3    | v. <i>delicatula</i> .....   | 74   |
| laetevirens .....     | 4    | guaymasensis .....           | 74   |
| pseudoflacca          |      | kinoensis .....              | 75   |
| f. minor .....        | 4    | lanceolata .....             | 75   |
| f. maxima .....       | 4    | linearis .....               | 75   |
| Ulva                  |      | Lyallii .....                | 75   |
| angusta .....         | 8    | mexicana .....               | 75   |
| californica .....     | 8    | Sternbergii .....            | 75   |
| dactylifera .....     | 9    | Zonaria                      |      |
| expansa .....         | 9    | Farlowii .....               | 29   |
| fenestrata .....      | 9    | <i>variegata</i> .....       | 29   |
| Lactuca .....         | 9    |                              |      |
| latissima .....       | 9    |                              |      |













